

GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: March 16, 2006, 17:25:05 ; Search time 27 Seconds  
(without alignments)  
1552.466 Million cell updates/sec

Title: US-10-036-342-57  
Perfect score: 2623  
Sequence: 1 MDPKLGPRMAASLLAVLLLL.....NYIEGTKLPAAFFLEMAQLH 507

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1500 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/ptodata/1/iaa/5 COMB.pep:\*  
2: /cgn2\_6/ptodata/1/iaa/6 COMB.pep:\*  
3: /cgn2\_6/ptodata/1/iaa/H COMB.pep:\*  
4: /cgn2\_6/ptodata/1/iaa/PCTUS COMB.pep:\*  
5: /cgn2\_6/ptodata/1/iaa/RE COMB.pep:\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep:\*

- Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1174.5	44.8	429	2	US-09-270-767-45937 Sequence 45937, A
2	990	37.7	492	2	US-09-248-796A-14755 Sequence 14755, A
3	607.5	23.2	148	2	US-09-621-976-3957 Sequence 3957, Ap
4	574.5	21.9	878	2	US-09-538-092-61 Sequence 61, Appl
5	451.5	17.2	495	2	US-09-438-185A-981 Sequence 981, App
6	432.5	16.5	457	2	US-09-583-110-4829 Sequence 4829, Ap
7	428	16.3	393	2	US-09-198-452A-1054 Sequence 1054, A
8	403	15.4	466	2	US-09-902-540-15643 Sequence 15643, A
9	395.5	15.1	345	2	US-09-248-796A-14559 Sequence 14559, A
10	367	14.0	304	2	US-09-107-433-3644 Sequence 3644, Ap
11	261	10.0	103	2	US-09-621-976-4417 Sequence 4417, Ap
12	248	9.5	98	2	US-09-513-999C-5701 Sequence 5701, Ap
13	248	9.5	98	2	US-09-513-999C-5702 Sequence 5702, Ap
14	242.5	9.2	267	2	US-09-602-777A-192 Sequence 192, App
15	233	8.9	231	2	US-09-602-777A-194 Sequence 194, App
16	230.5	8.8	476	2	US-09-902-540-14806 Sequence 14806, A
17	225.5	8.6	406	2	US-09-328-352-5309 Sequence 5309, Ap
18	215	8.2	370	2	US-09-331-568A-30 Sequence 30, Appl
19	211	8.0	431	2	US-09-134-001C-4338 Sequence 4338, Ap
20	210	8.0	376	2	US-09-489-039A-9125 Sequence 9125, Ap
21	195.5	7.5	632	2	US-09-252-991A-17148 Sequence 17148, A
22	188.5	7.2	386	2	US-09-543-681A-8238 Sequence 8238, Ap
23	187	7.1	440	2	US-09-107-532A-4071 Sequence 4071, Ap
24	176	6.7	318	2	US-09-581-005-2 Sequence 2, Appli
25	175	6.7	402	2	US-09-134-000C-5335 Sequence 5335, Ap
26	174	6.6	439	2	US-09-634-238-412 Sequence 412, App
27	172	6.6	331	2	US-09-724-623-78 Sequence 78, Appl

28	172	6.6	355	2	US-09-331-568A-28 Sequence 28, Appl
29	172	6.6	425	2	US-09-134-000C-3861 Sequence 3861, Ap
30	172	6.6	465	2	US-09-634-238-411 Sequence 411, App
31	171	6.5	418	2	US-09-134-001C-3552 Sequence 3552, Ap
32	169	6.4	408	2	US-09-902-540-10715 Sequence 10715, A
33	162.5	6.2	450	2	US-09-107-532A-6534 Sequence 6534, Ap
34	158	6.0	402	2	US-09-540-236-2685 Sequence 2685, Ap
35	157.5	6.0	466	2	US-09-583-110-5296 Sequence 5296, Ap
36	157.5	6.0	470	2	US-09-107-433-3616 Sequence 3616, Ap
37	150	5.7	388	2	US-09-331-568A-4 Sequence 4, Appli
38	150	5.7	388	2	US-09-331-568A-29 Sequence 29, Appl
39	149	5.7	396	2	US-09-543-681A-8308 Sequence 8308, Ap
40	144	5.5	380	2	US-09-902-540-10970 Sequence 10970, A
41	141	5.4	408	1	US-08-127-278-4 Sequence 4, Appli
42	141	5.4	408	1	US-08-555-860-4 Sequence 4, Appli
43	141	5.4	408	2	US-09-814-951A-4 Sequence 4, Appli
44	141	5.4	408	2	US-10-109-860B-4 Sequence 4, Appli
45	141	5.4	421	2	US-09-949-016-10991 Sequence 10991, A
46	139.5	5.3	443	2	US-09-583-110-4278 Sequence 4278, Ap
47	139.5	5.3	446	2	US-09-107-433-4675 Sequence 4675, Ap
48	137.5	5.2	393	2	US-09-252-991A-22875 Sequence 22875, A
49	137	5.2	370	2	US-09-270-767-33923 Sequence 33923, A
50	137	5.2	370	2	US-09-270-767-49140 Sequence 49140, A
51	136.5	5.2	446	2	US-09-134-001C-5125 Sequence 5125, Ap
52	133.5	5.1	434	2	US-09-252-991A-21048 Sequence 21048, A
53	132	5.0	383	2	US-09-575-602-4 Sequence 4, Appli
54	132	5.0	383	2	US-09-032-086-4 Sequence 4, Appli
55	128.5	4.9	258	2	US-09-134-000C-4891 Sequence 4891, Ap
56	126	4.8	418	2	US-09-710-279-380 Sequence 380, App
57	125.5	4.8	430	2	US-09-134-001C-4302 Sequence 4302, Ap
58	125	4.8	373	2	US-09-814-951A-2 Sequence 2, Appli
59	125	4.8	373	2	US-10-109-860B-2 Sequence 2, Appli
60	123.5	4.7	441	2	US-09-489-039A-12164 Sequence 12164, A
61	118.5	4.5	1433	2	US-09-716-964B-184 Sequence 184, App
62	116	4.4	334	2	US-09-107-532A-6586 Sequence 6586, Ap
63	114	4.3	265	2	US-09-134-000C-6459 Sequence 6459, Ap
64	114	4.3	803	2	US-09-543-681A-4623 Sequence 4623, Ap
65	113.5	4.3	409	2	US-09-564-559B-5 Sequence 5, Appli
66	113.5	4.3	409	2	US-09-564-559B-6 Sequence 6, Appli
67	113	4.3	410	1	US-08-792-283A-7 Sequence 7, Appli
68	113	4.3	410	1	US-09-105-908-7 Sequence 7, Appli
69	113	4.3	410	2	US-09-271-713-7 Sequence 7, Appli
70	113	4.3	410	2	US-09-023-809B-1 Sequence 1, Appli
71	113	4.3	410	2	US-09-723-546-1 Sequence 7, Appli
72	112	4.3	409	2	US-09-564-559B-7 Sequence 8, Appli
73	112	4.3	409	2	US-09-564-559B-8 Sequence 9, Appli
74	112	4.3	409	2	US-09-564-559B-9 Sequence 10, Appl
75	112	4.3	410	2	US-09-023-809B-2 Sequence 2, Appli
76	112	4.3	410	2	US-09-723-546-2 Sequence 2, Appli
77	112	4.3	410	2	US-09-602-777A-202 Sequence 202, App
78	111	4.2	422	2	US-09-270-767-31641 Sequence 31641, A
79	110.5	4.2	164	2	US-09-270-767-46858 Sequence 46858, A
80	110.5	4.2	164	2	US-09-270-767-46858 Sequence 11320, A
81	110	4.2	615	2	US-09-949-016-11320 Sequence 92, Appl
82	110	4.2	1953	2	US-09-917-254-92 Sequence 19355, A
83	109	4.2	290	2	US-09-252-991A-19355 Sequence 206, App
84	108	4.1	246	2	US-09-602-777A-206 Sequence 5519, Ap
85	107.5	4.1	379	2	US-09-107-532A-5519 Sequence 33804, A
86	105	4.0	141	2	US-09-270-767-33804 Sequence 7526, Ap
87	104.5	4.0	383	2	US-09-543-681A-7526 Sequence 4952, Ap
88	103	3.9	385	2	US-09-134-000C-4952 Sequence 6686, Ap
89	103	3.9	809	2	US-09-543-681A-6686 Sequence 44278, A
90	102.5	3.9	338	2	US-09-270-767-44278 Sequence 36, Appl
91	102.5	3.9	1118	2	US-09-585-173B-36 Sequence 5230, Ap
92	101	3.9	353	2	US-09-328-352-5230 Sequence 41, Appl
93	100.5	3.8	826	2	US-09-756-247-41 Sequence 112, App
94	100.5	3.8	1473	2	US-10-037-417-112 Sequence 5705, Ap
95	100	3.8	471	2	US-09-543-681A-5705 Sequence 40, Appli
96	99	3.8	1031	2	US-09-585-173B-40 Sequence 2, Appli
97	99	3.8	1704	2	US-09-392-812A-2 Sequence 9705, Ap
98	98	3.7	362	2	US-09-902-540-9705 Sequence 12499, A
99	98	3.7	895	2	US-09-489-039A-12499 Sequence 28292, A
100	97.5	3.7	462	2	US-09-252-991A-28292

101	97.5	3.7	981	2	US-09-328-352-4484	Sequence 4484, Ap	174	90.5	3.5	1167	2	US-09-206-800-2	Sequence 2, Appli
102	96.5	3.7	4551	2	US-09-320-878-1	Sequence 1, Appli	175	90.5	3.5	1167	2	US-09-206-898-2	Sequence 2, Appli
103	96.5	3.7	4551	2	US-09-141-908-2	Sequence 2, Appli	176	90.5	3.5	1167	2	US-09-870-122A-2	Sequence 2, Appli
104	96.5	3.7	4551	2	US-09-657-440-1	Sequence 1, Appli	177	90.5	3.5	3418	1	US-08-603-753D-4	Sequence 4, Appli
105	96.5	3.7	4551	2	US-09-793-708-1	Sequence 1, Appli	178	90.5	3.5	3418	2	US-09-099-753-4	Sequence 4, Appli
106	96.5	3.7	4613	2	US-09-105-537-31	Sequence 31, Appl	179	90.5	3.5	3418	2	US-08-986-106-4	Sequence 4, Appli
107	96.5	3.7	11877	2	US-09-105-537-6	Sequence 6, Appli	180	90	3.4	195	2	US-09-270-767-32113	Sequence 32113, A
108	96	3.7	2867	2	US-09-902-540-12593	Sequence 12593, A	181	90	3.4	195	2	US-09-270-767-47330	Sequence 47330, A
109	95.5	3.6	410	1	US-08-792-283A-8	Sequence 8, Appli	182	90	3.4	432	2	US-09-917-254-80	Sequence 80, Appl
110	95.5	3.6	410	1	US-09-105-908-8	Sequence 8, Appli	183	90	3.4	432	2	US-09-949-016-6467	Sequence 6467, Ap
111	95.5	3.6	410	2	US-09-271-713-8	Sequence 8, Appli	184	90	3.4	447	2	US-09-949-016-11453	Sequence 11453, A
112	95	3.6	409	2	US-09-023-809B-3	Sequence 3, Appli	185	90	3.4	472	2	US-09-913-204-1	Sequence 1, Appli
113	95	3.6	409	2	US-09-564-559B-1	Sequence 1, Appli	186	90	3.4	495	2	US-09-479-645A-2	Sequence 2, Appli
114	95	3.6	409	2	US-09-564-559B-2	Sequence 2, Appli	187	90	3.4	495	2	US-09-479-645A-4	Sequence 4, Appli
115	95	3.6	409	2	US-09-564-559B-3	Sequence 3, Appli	188	90	3.4	664	2	US-09-328-352-5225	Sequence 5225, Ap
116	95	3.6	409	2	US-09-564-559B-4	Sequence 4, Appli	189	90	3.4	1313	2	US-08-989-299-9	Sequence 9, Appli
117	95	3.6	409	2	US-09-723-546-3	Sequence 3, Appli	190	90	3.4	1313	2	US-09-407-427-9	Sequence 9, Appli
118	95	3.6	1256	2	US-09-248-796A-18057	Sequence 18057, A	191	90	3.4	1313	2	US-09-635-501-9	Sequence 9, Appli
119	94.5	3.6	172	2	US-09-134-001C-3427	Sequence 3427, Ap	192	89.5	3.4	401	2	US-09-462-645C-2	Sequence 2, Appli
120	94.5	3.6	478	2	US-09-710-279-768	Sequence 768, App	193	89.5	3.4	401	2	US-09-462-645C-6	Sequence 6, Appli
121	94.5	3.6	787	2	US-09-712-363-178	Sequence 178, App	194	89.5	3.4	401	2	US-09-462-645C-10	Sequence 10, Appl
122	94	3.6	817	2	US-09-710-279-50	Sequence 50, Appl	195	89.5	3.4	426	2	US-09-134-000C-6758	Sequence 6758, Ap
123	94	3.6	817	2	US-09-710-279-1528	Sequence 1528, Ap	196	89.5	3.4	629	2	US-09-248-796A-19256	Sequence 19256, A
124	94	3.6	823	2	US-09-134-001C-4081	Sequence 4081, Ap	197	89.5	3.4	1181	2	US-09-206-898-23	Sequence 23, Appl
125	94	3.6	1053	2	US-08-863-118-3	Sequence 3, Appli	198	89.5	3.4	1181	2	US-09-870-122A-23	Sequence 23, Appl
126	93.5	3.6	412	2	US-09-543-681A-8182	Sequence 8182, Ap	199	89.5	3.4	1724	2	US-09-607-510-2	Sequence 2, Appli
127	93.5	3.6	472	2	US-09-252-991A-22807	Sequence 22807, A	200	89	3.4	237	2	US-09-949-016-10565	Sequence 10565, A
128	93.5	3.6	535	2	US-09-107-532A-6418	Sequence 6418, Ap	201	89	3.4	237	2	US-09-949-016-10566	Sequence 10566, A
129	93.5	3.6	639	2	US-09-347-801-17	Sequence 3338, Ap	202	89	3.4	353	2	US-09-902-540-10913	Sequence 10913, A
130	93.5	3.6	639	2	US-09-854-731-17	Sequence 17, Appl	203	89	3.4	665	2	US-08-506-296B-68	Sequence 68, Appl
131	93.5	3.6	777	2	US-09-902-540-15059	Sequence 15059, A	204	89	3.4	732	2	US-08-989-299-5	Sequence 5, Appli
132	93	3.5	373	2	US-09-248-796A-19382	Sequence 19382, A	205	89	3.4	732	2	US-09-407-427-5	Sequence 5, Appli
133	93	3.5	398	2	US-09-107-532A-6418	Sequence 6418, Ap	206	89	3.4	732	2	US-09-635-501-5	Sequence 5, Appli
134	93	3.5	410	1	US-08-792-283A-9	Sequence 9, Appli	207	89	3.4	1312	2	US-08-989-299-8	Sequence 8, Appli
135	93	3.5	410	1	US-09-105-908-9	Sequence 9, Appli	208	89	3.4	1312	2	US-09-407-427-8	Sequence 8, Appli
136	93	3.5	410	2	US-09-271-713-9	Sequence 9, Appli	209	89	3.4	1312	2	US-09-635-501-8	Sequence 8, Appli
137	93	3.5	429	2	US-09-902-540-15549	Sequence 15549, A	210	89	3.4	15281	1	US-08-471-119A-2	Sequence 2, Appli
138	93	3.5	480	1	US-08-913-477-17	Sequence 17, Appl	211	88.5	3.4	283	2	US-09-425-578-2	Sequence 2, Appli
139	93	3.5	501	1	US-08-913-477-23	Sequence 23, Appl	212	88.5	3.4	500	2	US-09-538-092-65	Sequence 65, Appl
140	93	3.5	900	2	US-09-949-016-7501	Sequence 7501, Ap	213	88.5	3.4	563	2	US-09-949-016-6287	Sequence 6287, Ap
141	93	3.5	900	2	US-09-949-016-7502	Sequence 7502, Ap	214	88.5	3.4	759	2	US-09-489-039A-13760	Sequence 13760, A
142	93	3.5	1310	2	US-08-989-299-10	Sequence 10, Appl	215	88	3.4	75	2	US-09-513-999C-7485	Sequence 7485, Ap
143	93	3.5	1310	2	US-09-407-427-10	Sequence 10, Appl	216	88	3.4	364	2	US-09-328-352-6641	Sequence 6641, Ap
144	93	3.5	1310	2	US-09-635-501-10	Sequence 10, Appl	217	88	3.4	466	2	US-09-248-796A-16844	Sequence 16844, A
145	92.5	3.5	370	1	US-08-997-080-194	Sequence 194, App	218	88	3.4	483	2	US-09-248-796A-18158	Sequence 18158, A
146	92.5	3.5	370	1	US-08-997-362-194	Sequence 194, App	219	88	3.4	505	2	US-09-830-230A-65	Sequence 65, Appl
147	92.5	3.5	370	2	US-09-095-855-194	Sequence 194, App	220	88	3.4	508	2	US-09-858-664A-18	Sequence 18, Appl
148	92.5	3.5	370	2	US-09-324-542-194	Sequence 194, App	221	88	3.4	508	2	US-10-274-978-19	Sequence 19, Appl
149	92.5	3.5	370	2	US-09-205-426-194	Sequence 194, App	222	88	3.4	508	2	US-10-697-263-19	Sequence 19, Appl
150	92.5	3.5	520	1	US-08-706-292-2	Sequence 2, Appl	223	88	3.4	616	2	US-10-104-047-2331	Sequence 2331, Ap
151	92.5	3.5	520	2	US-09-032-365A-15	Sequence 15, Appl	224	87.5	3.3	491	2	US-09-830-230A-66	Sequence 66, Appl
152	92.5	3.5	623	2	US-09-583-110-3324	Sequence 3324, Ap	225	87.5	3.3	732	1	US-08-481-626-2	Sequence 2, Appli
153	92.5	3.5	633	2	US-09-107-433-4091	Sequence 4091, Ap	226	87.5	3.3	732	2	US-08-989-299-4	Sequence 4, Appli
154	92.5	3.5	968	2	US-09-252-991A-18925	Sequence 18925, A	227	87.5	3.3	732	2	US-08-989-299-7	Sequence 7, Appli
155	92.5	3.5	1501	2	US-09-487-558B-346	Sequence 346, App	228	87.5	3.3	732	2	US-09-635-501-4	Sequence 4, Appli
156	92	3.5	228	2	US-09-248-796A-17522	Sequence 17522, A	229	87.5	3.3	789	2	US-09-107-532A-6734	Sequence 6734, Ap
157	92	3.5	686	2	US-09-134-000C-5066	Sequence 5066, Ap	230	87.5	3.3	804	2	US-09-270-767-46750	Sequence 46750, A
158	92	3.5	1059	2	US-09-394-272-5	Sequence 5, Appli	231	87.5	3.3	1052	2	US-08-863-118-1	Sequence 1, Appli
159	91.5	3.5	310	2	US-09-724-623-122	Sequence 122, App	232	87.5	3.3	1052	2	US-09-377-310-2	Sequence 2, Appli
160	91.5	3.5	553	2	US-09-605-703B-2674	Sequence 2674, Ap	233	87.5	3.3	1265	2	US-09-964-899-19	Sequence 19, Appl
161	91.5	3.5	3418	1	US-08-639-501-2	Sequence 2, Appli	234	87.5	3.3	1306	2	US-08-989-299-7	Sequence 7, Appli
162	91.5	3.5	3418	2	US-09-044-946-2	Sequence 2, Appli	235	87.5	3.3	1306	2	US-09-407-427-7	Sequence 7, Appli
163	91.5	3.5	3418	2	US-08-755-587-44	Sequence 44, Appl	236	87.5	3.3	1306	2	US-09-635-501-7	Sequence 7, Appli
164	91.5	3.5	3418	2	US-09-044-908-2	Sequence 2, Appli	237	87.5	3.3	1306	2	US-09-949-016-8693	Sequence 8693, Ap
165	91	3.5	656	2	US-09-252-991A-25135	Sequence 25135, A	238	87.5	3.3	1481	2	US-09-949-016-8694	Sequence 8694, Ap
166	91	3.5	706	2	US-09-134-000C-5534	Sequence 5534, Ap	239	87.5	3.3	1481	2	US-09-949-016-8695	Sequence 8695, Ap
167	91	3.5	737	2	US-08-989-299-6	Sequence 6, Appli	240	87.5	3.3	1481	2	US-09-949-016-8696	Sequence 8696, Ap
168	91	3.5	737	2	US-09-407-427-6	Sequence 6, Appli	241	87.5	3.3	1486	2	US-09-949-016-8675	Sequence 8675, Ap
169	91	3.5	737	2	US-09-635-501-6	Sequence 6, Appli	242	87.5	3.3	1486	2	US-09-949-016-8676	Sequence 8676, Ap
170	91	3.5	1054	2	US-10-104-047-2938	Sequence 2938, Ap	243	87.5	3.3	1486	2	US-09-949-016-8677	Sequence 8677, Ap
171	90.5	3.5	616	2	US-09-248-796A-17521	Sequence 17521, A	244	87.5	3.3	1486	2	US-09-949-016-8678	Sequence 8678, Ap
172	90.5	3.5	921	2	US-09-206-800-10	Sequence 10, Appl	245	87.5	3.3	1486	2	US-09-949-016-8679	Sequence 8679, Ap
173	90.5	3.5	1167	1	US-08-589-756-2	Sequence 2, Appli	246	87.5	3.3	1486	2	US-09-949-016-8680	Sequence 8680, Ap



247	87.5	3.3	1486	2	US-09-949-016-8681	Sequence 8681, Ap	320	84	3.2	504	1	US-08-187-453-30	Sequence 30, Appl
248	87.5	3.3	1486	2	US-09-949-016-8682	Sequence 8682, Ap	321	84	3.2	668	2	US-09-248-796A-17495	Sequence 17495, A
249	87.5	3.3	1499	2	US-09-949-016-8683	Sequence 8683, Ap	322	84	3.2	724	2	US-09-543-681A-4745	Sequence 4745, Ap
250	87.5	3.3	1499	2	US-09-949-016-8684	Sequence 8684, Ap	323	84	3.2	735	2	US-09-147-236-7	Sequence 7, Appli
251	87.5	3.3	1499	2	US-09-949-016-8685	Sequence 8685, Ap	324	84	3.2	735	2	US-09-522-474-7	Sequence 7, Appli
252	87.5	3.3	1499	2	US-09-949-016-8686	Sequence 8686, Ap	325	84	3.2	754	2	US-09-543-681A-5416	Sequence 5416, Ap
253	87.5	3.3	1499	2	US-09-949-016-8687	Sequence 8687, Ap	326	84	3.2	823	2	US-09-107-532A-6343	Sequence 6343, Ap
254	87.5	3.3	1499	2	US-09-949-016-8688	Sequence 8688, Ap	327	84	3.2	953	1	US-08-500-857A-2	Sequence 2, Appli
255	87.5	3.3	1499	2	US-09-949-016-8689	Sequence 8689, Ap	328	84	3.2	1125	2	US-09-900-920-60	Sequence 60, Appl
256	87.5	3.3	1499	2	US-09-949-016-8690	Sequence 8690, Ap	329	84	3.2	1501	2	US-09-252-991A-20266	Sequence 20266, A
257	87.5	3.3	1499	2	US-09-949-016-8691	Sequence 8691, Ap	330	84	3.2	1734	2	US-09-724-126A-19	Sequence 19, Appl
258	87.5	3.3	1858	2	US-09-489-039A-11380	Sequence 11380, A	331	84	3.2	1749	2	US-09-724-126A-2	Sequence 2, Appli
259	87.5	3.3	7831	2	US-09-902-540-12902	Sequence 12902, A	332	84	3.2	1881	2	US-09-233-086-3	Sequence 3, Appli
260	87	3.3	139	2	US-09-328-352-7327	Sequence 7327, Ap	333	83.5	3.2	344	2	US-09-328-352-7987	Sequence 7987, Ap
261	87	3.3	559	2	US-09-902-540-14492	Sequence 14492, A	334	83.5	3.2	367	2	US-09-991-181-8	Sequence 8, Appli
262	87	3.3	602	2	US-09-569-037-6	Sequence 6, Appli	335	83.5	3.2	367	2	US-09-990-444-8	Sequence 8, Appli
263	87	3.3	631	2	US-09-569-037-5	Sequence 5, Appli	336	83.5	3.2	367	2	US-09-997-333-8	Sequence 8, Appli
264	87	3.3	663	2	US-09-543-681A-4450	Sequence 4450, Ap	337	83.5	3.2	367	2	US-09-992-598-8	Sequence 8, Appli
265	87	3.3	1456	2	US-09-134-000C-6427	Sequence 6427, Ap	338	83.5	3.2	464	2	US-09-489-039A-8157	Sequence 8157, Ap
266	86.5	3.3	471	2	US-09-107-532A-4629	Sequence 4629, Ap	339	83.5	3.2	496	2	US-08-622-191-1	Sequence 1, Appli
267	86.5	3.3	529	1	US-08-548-509-2	Sequence 2, Appli	340	83.5	3.2	510	2	US-09-710-279-2860	Sequence 2860, Ap
268	86.5	3.3	605	2	US-09-902-540-14269	Sequence 14269, A	341	83.5	3.2	545	2	US-08-974-180-15	Sequence 15, Appl
269	86.5	3.3	734	2	US-09-438-185A-125	Sequence 125, App	342	83.5	3.2	583	2	US-09-710-279-1358	Sequence 1358, Ap
270	86.5	3.3	826	2	US-09-328-352-7515	Sequence 7515, Ap	343	83.5	3.2	778	2	US-09-328-352-7907	Sequence 7907, Ap
271	86.5	3.3	1627	2	US-09-252-991A-28863	Sequence 28863, A	344	83.5	3.2	927	2	US-09-134-001C-4831	Sequence 4831, Ap
272	86.5	3.3	2141	2	US-09-949-016-10918	Sequence 10918, A	345	83.5	3.2	1010	2	US-09-134-001C-5178	Sequence 5178, Ap
273	86	3.3	222	2	US-09-134-000C-4293	Sequence 4293, Ap	346	83.5	3.2	2322	2	US-09-976-594-15	Sequence 15, Appl
274	86	3.3	459	2	US-09-950-772-4	Sequence 4, Appli	347	83.5	3.2	2322	2	US-09-919-039-15	Sequence 15, Appl
275	86	3.3	574	2	US-09-385-028-4	Sequence 4, Appli	348	83.5	3.2	3169	2	US-09-453-702B-257	Sequence 257, App
276	86	3.3	574	2	US-09-726-614-4	Sequence 4, Appli	349	83.5	3.2	3169	2	US-10-114-170-257	Sequence 257, App
277	86	3.3	574	2	US-09-385-040-4	Sequence 4, Appli	350	83.5	3.2	3666	1	US-08-222-617A-12	Sequence 12, Appl
278	86	3.3	618	2	US-09-934-901-18	Sequence 18, Appl	351	83.5	3.2	3727	1	US-08-222-617A-27	Sequence 27, Appl
279	86	3.3	618	2	US-09-934-868-8	Sequence 8, Appli	352	83.5	3.2	3778	1	US-08-222-617A-2	Sequence 2, Appli
280	86	3.3	618	2	US-10-321-210-18	Sequence 18, Appl	353	83	3.2	407	2	US-09-902-540-15171	Sequence 15171, A
281	86	3.3	618	2	US-10-320-874-18	Sequence 18, Appl	354	83	3.2	444	2	US-09-991-181-410	Sequence 410, App
282	86	3.3	618	2	US-10-320-924-18	Sequence 18, Appl	355	83	3.2	444	2	US-09-990-444-410	Sequence 410, App
283	86	3.3	618	2	US-10-701-200-8	Sequence 8, Appli	356	83	3.2	444	2	US-09-997-333-410	Sequence 410, App
284	86	3.3	788	2	US-09-270-767-44611	Sequence 44611, A	357	83	3.2	444	2	US-09-992-598-410	Sequence 410, App
285	86	3.3	795	2	US-09-370-807-6	Sequence 6, Appli	358	83	3.2	501	2	US-09-489-039A-12663	Sequence 12663, A
286	86	3.3	795	2	US-09-921-259-6	Sequence 6, Appli	359	83	3.2	503	1	US-07-612-673-2	Sequence 2, Appli
287	86	3.3	1287	2	US-09-949-016-7826	Sequence 7826, Ap	360	83	3.2	576	2	US-09-578-921A-2	Sequence 2, Appli
288	85.5	3.3	268	2	US-09-949-016-7216	Sequence 7216, Ap	361	83	3.2	967	2	US-09-543-681A-6407	Sequence 6407, Ap
289	85.5	3.3	388	2	US-09-489-039A-9214	Sequence 9214, Ap	362	83	3.2	988	2	US-09-382-552-233	Sequence 233, App
290	85.5	3.3	498	2	US-09-248-796A-25517	Sequence 25517, A	363	83	3.2	2080	2	US-09-382-552-2	Sequence 2, Appli
291	85.5	3.3	849	2	US-09-543-681A-5761	Sequence 5761, Ap	364	83	3.2	2285	2	US-09-252-991A-17790	Sequence 17790, A
292	85.5	3.3	1026	2	US-09-248-796A-16128	Sequence 16128, A	365	83	3.2	2366	1	US-08-480-604A-10	Sequence 10, Appl
293	85.5	3.3	1161	2	US-09-817-762-8	Sequence 8, Appli	366	83	3.2	2366	1	US-08-405-496A-10	Sequence 10, Appl
294	85.5	3.3	1179	2	US-09-252-991A-17895	Sequence 17895, A	367	83	3.2	2366	2	US-08-915-136-10	Sequence 10, Appl
295	85	3.2	195	2	US-09-270-767-32953	Sequence 32953, A	368	83	3.2	2366	2	US-08-957-310-10	Sequence 10, Appl
296	85	3.2	195	2	US-09-270-767-48170	Sequence 48170, A	369	83	3.2	2366	2	US-10-011-366-10	Sequence 10, Appl
297	85	3.2	385	2	US-10-272-490-80	Sequence 80, Appl	370	83	3.2	2366	2	US-09-084-517-10	Sequence 10, Appl
298	85	3.2	389	2	US-09-949-016-9488	Sequence 9488, Ap	371	82.5	3.1	347	2	US-09-540-236-2130	Sequence 2130, Ap
299	85	3.2	420	2	US-09-902-540-12220	Sequence 12220, A	372	82.5	3.1	425	2	US-10-169-048-58	Sequence 58, Appl
300	85	3.2	426	2	US-09-489-039A-7944	Sequence 7944, Ap	373	82.5	3.1	521	1	US-07-796-361A-11	Sequence 11, Appl
301	85	3.2	498	2	US-09-489-039A-13707	Sequence 13707, A	374	82.5	3.1	521	1	US-08-539-666-2	Sequence 2, Appli
302	85	3.2	547	2	US-09-555-000-2	Sequence 2, Appli	375	82.5	3.1	532	2	US-09-792-024-70	Sequence 70, Appl
303	85	3.2	672	2	US-09-040-843-4	Sequence 4, Appli	376	82.5	3.1	772	2	US-09-252-991A-31855	Sequence 31855, A
304	85	3.2	713	1	US-08-849-212-4	Sequence 4, Appli	377	82.5	3.1	815	2	US-09-914-259-18	Sequence 18, Appl
305	85	3.2	713	2	US-09-621-855-4	Sequence 4, Appli	378	82.5	3.1	1132	2	US-09-248-796A-15026	Sequence 15026, A
306	85	3.2	866	2	US-09-040-843-2	Sequence 2, Appli	379	82.5	3.1	1493	2	US-09-713-273A-20	Sequence 20, Appl
307	85	3.2	866	2	US-09-621-855-2	Sequence 2, Appli	380	82.5	3.1	2165	1	US-08-514-975B-2	Sequence 2, Appli
308	85	3.2	1464	2	US-10-038-224-2	Sequence 2, Appli	381	82.5	3.1	2165	2	US-09-368-076-29	Sequence 29, Appl
309	85	3.2	1755	2	US-09-724-126A-4	Sequence 4, Appli	382	82.5	3.1	2165	2	US-09-368-076-30	Sequence 30, Appl
310	84.5	3.2	208	2	US-09-902-540-15342	Sequence 15342, A	383	82.5	3.1	2165	4	PCT-US95-12507-2	Sequence 2, Appli
311	84.5	3.2	332	2	US-09-583-110-4063	Sequence 4063, Ap	384	82	3.1	334	2	US-09-538-092-894	Sequence 894, App
312	84.5	3.2	526	2	US-09-248-796A-14807	Sequence 14807, A	385	82	3.1	417	2	US-09-107-532A-6148	Sequence 6148, Ap
313	84.5	3.2	575	2	US-09-543-681A-6584	Sequence 6584, Ap	386	82	3.1	465	2	US-09-489-039A-13461	Sequence 13461, A
314	84.5	3.2	643	2	US-10-175-002-2	Sequence 2, Appli	387	82	3.1	498	2	US-09-252-991A-28182	Sequence 28182, A
315	84.5	3.2	1259	2	US-09-489-039A-8840	Sequence 8840, Ap	388	82	3.1	531	2	US-09-145-916-7	Sequence 7, Appli
316	84.5	3.2	4861	2	US-09-919-497-70	Sequence 70, Appl	389	82	3.1	543	2	US-08-426-509A-14	Sequence 14, Appl
317	84	3.2	397	1	US-08-415-823-2	Sequence 2, Appli	390	82	3.1	543	2	US-08-232-545-14	Sequence 14, Appl
318	84	3.2	397	1	US-09-086-662-2	Sequence 2, Appli	391	82	3.1	543	2	US-09-470-881-8	Sequence 8, Appli
319	84	3.2	504	1	US-08-135-511-30	Sequence 30, Appl	392	82	3.1	543	2	US-09-538-092-870	Sequence 870, App

393	82	3.1	543	2	US-09-977-261-14	Sequence 14, Appl	466	81	3.1	491	2	US-09-134-001C-4677	Sequence 4677, Ap
394	82	3.1	543	4	PCT-US95-05008-14	Sequence 14, Appl	467	81	3.1	498	2	US-08-686-968C-231	Sequence 231, App
395	82	3.1	581	2	US-09-323-872A-46	Sequence 46, Appl	468	81	3.1	500	2	US-09-949-016-7131	Sequence 7131, Ap
396	82	3.1	614	2	US-10-257-637-2	Sequence 2, Appli	469	81	3.1	550	2	US-09-328-352-5333	Sequence 5333, Ap
397	82	3.1	647	1	US-07-894-212A-8	Sequence 8, Appli	470	81	3.1	558	2	US-09-538-092-832	Sequence 832, App
398	82	3.1	649	1	US-07-894-212A-2	Sequence 2, Appli	471	81	3.1	575	2	US-09-949-016-7622	Sequence 7622, Ap
399	82	3.1	650	1	US-07-893-928A-1	Sequence 1, Appli	472	81	3.1	575	2	US-09-949-016-7623	Sequence 7623, Ap
400	82	3.1	743	2	US-09-585-858-13	Sequence 13, Appl	473	81	3.1	585	2	US-09-248-796A-14925	Sequence 14925, A
401	82	3.1	743	2	US-10-270-878-13	Sequence 13, Appl	474	81	3.1	592	1	US-08-599-171A-30	Sequence 30, Appl
402	82	3.1	897	2	US-09-543-681A-4915	Sequence 4915, Ap	475	81	3.1	592	1	US-08-646-590B-30	Sequence 30, Appl
403	82	3.1	910	2	US-09-623-326-7	Sequence 7, Appli	476	81	3.1	592	2	US-09-069-226-30	Sequence 30, Appl
404	82	3.1	910	2	US-09-623-326-8	Sequence 8, Appli	477	81	3.1	592	2	US-09-412-184-30	Sequence 30, Appl
405	82	3.1	1003	2	US-09-991-181-33	Sequence 33, Appl	478	81	3.1	609	2	US-09-396-149-6	Sequence 6, Appli
406	82	3.1	1003	2	US-09-990-444-33	Sequence 33, Appl	479	81	3.1	610	2	US-09-949-016-7708	Sequence 7708, Ap
407	82	3.1	1003	2	US-09-997-333-33	Sequence 33, Appl	480	81	3.1	677	2	US-09-019-160-3	Sequence 3, Appli
408	82	3.1	1003	2	US-09-992-598-33	Sequence 33, Appl	481	81	3.1	706	2	US-09-538-092-649	Sequence 649, App
409	82	3.1	1029	2	US-09-929-769-7	Sequence 7, Appli	482	81	3.1	708	2	US-09-019-160-5	Sequence 5, Appli
410	82	3.1	1029	2	US-10-033-301-22	Sequence 22, Appl	483	81	3.1	740	2	US-09-323-872A-25	Sequence 25, Appl
411	82	3.1	2368	1	US-08-198-446B-15	Sequence 15, Appl	484	81	3.1	740	2	US-09-072-433-30	Sequence 30, Appl
412	82	3.1	2368	1	US-08-870-693-15	Sequence 15, Appl	485	81	3.1	744	2	US-09-328-352-7920	Sequence 7920, Ap
413	81.5	3.1	335	2	US-09-902-540-12406	Sequence 12406, A	486	81	3.1	873	2	US-09-710-279-3036	Sequence 3036, Ap
414	81.5	3.1	440	6	5310667-9	Patent No. 5310667	487	81	3.1	893	2	US-09-019-160-6	Sequence 6, Appli
415	81.5	3.1	442	1	US-08-476-008-64	Sequence 64, Appl	488	81	3.1	893	2	US-09-019-160-7	Sequence 7, Appli
416	81.5	3.1	442	1	US-08-306-063-64	Sequence 64, Appl	489	81	3.1	893	2	US-09-019-160-8	Sequence 8, Appli
417	81.5	3.1	442	1	US-08-833-485-64	Sequence 64, Appl	490	81	3.1	893	2	US-09-019-160-9	Sequence 9, Appli
418	81.5	3.1	442	2	US-09-137-440-64	Sequence 64, Appl	491	81	3.1	897	2	US-09-134-001C-3600	Sequence 3600, Ap
419	81.5	3.1	476	1	US-08-541-033A-26	Sequence 26, Appl	492	81	3.1	1044	2	US-10-197-220-71	Sequence 71, Appl
420	81.5	3.1	476	1	US-08-828-451-26	Sequence 26, Appl	493	81	3.1	1047	2	US-09-198-452A-1058	Sequence 1058, Ap
421	81.5	3.1	487	1	US-08-541-033A-24	Sequence 24, Appl	494	81	3.1	1047	2	US-09-438-185A-985	Sequence 985, App
422	81.5	3.1	487	1	US-08-828-451-24	Sequence 24, Appl	495	81	3.1	1203	2	US-09-583-110-3634	Sequence 3634, Ap
423	81.5	3.1	512	1	US-08-541-033A-4	Sequence 4, Appli	496	81	3.1	1216	2	US-09-107-433-4255	Sequence 4255, Ap
424	81.5	3.1	512	1	US-08-828-451-4	Sequence 4, Appli	497	80.5	3.1	273	1	US-08-997-080-75	Sequence 75, Appl
425	81.5	3.1	514	2	US-09-717-432-2	Sequence 2, Appli	498	80.5	3.1	273	1	US-08-997-362-75	Sequence 75, Appl
426	81.5	3.1	514	2	US-09-912-484-2	Sequence 2, Appli	499	80.5	3.1	273	2	US-08-873-970-75	Sequence 75, Appl
427	81.5	3.1	526	1	US-08-541-033A-2	Sequence 2, Appli	500	80.5	3.1	273	2	US-09-095-855-75	Sequence 75, Appl
428	81.5	3.1	526	1	US-08-828-451-2	Sequence 2, Appli	501	80.5	3.1	273	2	US-09-324-542-75	Sequence 75, Appl
429	81.5	3.1	539	2	US-08-687-590-27	Sequence 27, Appl	502	80.5	3.1	273	2	US-09-205-426-75	Sequence 75, Appl
430	81.5	3.1	539	2	US-09-702-705-326	Sequence 326, App	503	80.5	3.1	300	2	US-09-248-796A-17946	Sequence 17946, A
431	81.5	3.1	539	2	US-09-736-457-326	Sequence 326, App	504	80.5	3.1	371	2	US-09-134-000C-5173	Sequence 5173, Ap
432	81.5	3.1	539	2	US-09-614-124B-326	Sequence 326, App	505	80.5	3.1	464	2	US-09-583-110-3968	Sequence 3968, Ap
433	81.5	3.1	539	2	US-09-671-325-326	Sequence 326, App	506	80.5	3.1	468	2	US-09-107-433-4005	Sequence 4005, Ap
434	81.5	3.1	539	2	US-09-589-184-326	Sequence 326, App	507	80.5	3.1	478	2	US-09-489-039A-10194	Sequence 10194, A
435	81.5	3.1	539	2	US-09-658-824-326	Sequence 326, App	508	80.5	3.1	500	2	US-08-926-842B-16	Sequence 16, Appl
436	81.5	3.1	539	2	US-10-017-754-326	Sequence 326, App	509	80.5	3.1	571	2	US-09-710-279-118	Sequence 118, App
437	81.5	3.1	539	2	US-09-651-563-326	Sequence 326, App	510	80.5	3.1	707	2	US-09-902-540-16063	Sequence 16063, A
438	81.5	3.1	539	2	US-09-519-642-326	Sequence 326, App	511	80.5	3.1	921	2	US-09-206-800-11	Sequence 11, Appl
439	81.5	3.1	573	2	US-09-134-001C-5026	Sequence 5026, Ap	512	80.5	3.1	924	2	US-09-267-311-2	Sequence 2, Appli
440	81.5	3.1	619	2	US-10-197-220-77	Sequence 77, Appl	513	80.5	3.1	942	2	US-09-171-937C-40	Sequence 40, Appl
441	81.5	3.1	624	2	US-09-198-452A-1089	Sequence 1089, Ap	514	80.5	3.1	1057	2	US-08-853-948B-2	Sequence 2, Appli
442	81.5	3.1	624	2	US-09-438-185A-1017	Sequence 1017, Ap	515	80.5	3.1	1057	2	US-09-697-367-23	Sequence 23, Appl
443	81.5	3.1	635	2	US-08-506-296B-71	Sequence 71, Appl	516	80.5	3.1	1057	2	US-09-394-272-2	Sequence 2, Appli
444	81.5	3.1	702	2	US-09-107-532A-6866	Sequence 6866, Ap	517	80.5	3.1	1057	2	US-09-918-909A-29	Sequence 29, Appl
445	81.5	3.1	704	2	US-09-902-540-10479	Sequence 10479, A	518	80.5	3.1	1146	2	US-08-914-999-6	Sequence 6, Appli
446	81.5	3.1	800	2	US-08-776-265-3	Sequence 3, Appli	519	80.5	3.1	1150	1	US-08-589-756-3	Sequence 3, Appli
447	81.5	3.1	800	2	US-09-398-184-3	Sequence 3, Appli	520	80.5	3.1	1150	2	US-09-206-800-3	Sequence 3, Appli
448	81.5	3.1	819	2	US-09-902-540-13635	Sequence 13635, A	521	80.5	3.1	1150	2	US-09-206-898-3	Sequence 3, Appli
449	81.5	3.1	830	2	US-10-033-301-7	Sequence 7, Appli	522	80.5	3.1	1150	2	US-09-870-122A-3	Sequence 3, Appli
450	81.5	3.1	837	2	US-09-012-710-12	Sequence 12, Appl	523	80.5	3.1	1711	2	US-09-771-161A-219	Sequence 219, App
451	81.5	3.1	837	2	US-09-556-273-12	Sequence 12, Appl	524	80.5	3.1	1711	2	US-09-771-161A-220	Sequence 220, App
452	81.5	3.1	977	2	US-09-248-796A-15579	Sequence 15579, A	525	80.5	3.1	3739	2	US-09-320-878-2	Sequence 2, Appli
453	81.5	3.1	1755	2	US-09-724-126A-6	Sequence 6, Appli	526	80.5	3.1	3739	2	US-09-105-537-33	Sequence 33, Appl
454	81.5	3.1	2138	2	US-09-583-110-5274	Sequence 5274, Ap	527	80.5	3.1	3739	2	US-09-141-908-3	Sequence 3, Appli
455	81	3.1	319	2	US-09-489-039A-8872	Sequence 8872, Ap	528	80.5	3.1	3739	2	US-09-657-440-2	Sequence 2, Appli
456	81	3.1	340	2	US-09-134-001C-3258	Sequence 3258, Ap	529	80.5	3.1	3739	2	US-09-793-708-2	Sequence 2, Appli
457	81	3.1	413	2	US-09-252-991A-21766	Sequence 21766, A	530	80	3.0	304	2	US-09-543-681A-8069	Sequence 8069, Ap
458	81	3.1	421	2	US-09-949-016-5872	Sequence 5872, Ap	531	80	3.0	314	2	US-09-248-796A-20373	Sequence 20373, A
459	81	3.1	425	1	US-08-615-170-17	Sequence 17, Appl	532	80	3.0	327	2	US-09-489-016-7956	Sequence 17148, A
460	81	3.1	443	2	US-09-769-787-152	Sequence 152, App	533	80	3.0	330	2	US-09-248-796A-17148	Sequence 2714, Ap
461	81	3.1	475	2	US-09-438-185A-835	Sequence 835, App	534	80	3.0	399	6	5474928-2	Patent No. 5474928
462	81	3.1	485	2	US-09-009-494-2	Sequence 2, Appli	535	80	3.0	401	2	US-09-949-016-7956	Sequence 7956, Ap
463	81	3.1	485	2	US-09-010-233-8	Sequence 8, Appli	536	80	3.0	445	2	US-09-489-039A-11173	Sequence 11173, A
464	81	3.1	485	2	US-09-010-232-4	Sequence 4, Appli	537	80	3.0	459	2	US-09-949-016-11641	Sequence 11641, A
465	81	3.1	485	2	US-09-710-279-1346	Sequence 1346, Ap	538	80	3.0	476	2	US-10-376-397B-2	Sequence 2, Appli





685	78.5	3.0	520	2	US-09-949-016-8026	Sequence 8026, Ap	758	78	3.0	558	2	US-09-538-092-1153	Sequence 1153, Ap
686	78.5	3.0	599	2	US-10-138-075-5	Sequence 5, Appli	759	78	3.0	559	2	US-09-595-682B-28	Sequence 28, Appl
687	78.5	3.0	668	2	US-09-902-540-14244	Sequence 14244, A	760	78	3.0	559	2	US-09-949-016-6426	Sequence 6426, Ap
688	78.5	3.0	672	2	US-09-949-016-8895	Sequence 8895, Ap	761	78	3.0	559	2	US-10-019-219-7	Sequence 7, Appli
689	78.5	3.0	682	2	US-08-836-687B-37	Sequence 37, Appl	762	78	3.0	577	2	US-09-949-016-9670	Sequence 9670, Ap
690	78.5	3.0	700	1	US-08-726-525-7	Sequence 7, Appli	763	78	3.0	580	2	US-08-818-112-75	Sequence 75, Appl
691	78.5	3.0	700	1	US-08-487-942-7	Sequence 7, Appli	764	78	3.0	580	2	US-08-818-111-76	Sequence 75, Appl
692	78.5	3.0	700	1	US-08-726-036A-7	Sequence 7, Appli	765	78	3.0	580	2	US-09-056-556-75	Sequence 75, Appl
693	78.5	3.0	700	2	US-09-422-869-23	Sequence 23, Appl	766	78	3.0	580	2	US-09-072-596-76	Sequence 76, Appl
694	78.5	3.0	700	2	US-09-083-516-7	Sequence 7, Appli	767	78	3.0	580	2	US-09-072-967-75	Sequence 75, Appl
695	78.5	3.0	700	2	US-09-538-092-947	Sequence 947, App	768	78	3.0	580	2	US-10-193-002-76	Sequence 76, Appl
696	78.5	3.0	700	2	US-09-884-319A-7	Sequence 7, Appli	769	78	3.0	580	2	US-10-084-843-75	Sequence 75, Appl
697	78.5	3.0	804	2	US-09-134-001C-5218	Sequence 5218, Ap	770	78	3.0	595	2	US-09-270-767-43484	Sequence 43484, A
698	78.5	3.0	862	2	US-09-346-237-1	Sequence 1, Appli	771	78	3.0	636	2	US-09-564-805-237	Sequence 237, App
699	78.5	3.0	956	2	US-09-914-259-17	Sequence 17, Appl	772	78	3.0	647	2	US-08-483-577A-148	Sequence 148, App
700	78.5	3.0	1020	1	US-08-070-301-3	Sequence 3, Appli	773	78	3.0	647	2	US-08-897-438-148	Sequence 148, App
701	78.5	3.0	1571	2	US-08-956-991-11	Sequence 11, Appl	774	78	3.0	647	2	US-08-649-518-148	Sequence 148, App
702	78.5	3.0	1618	1	US-07-853-913-4	Sequence 4, Appli	775	78	3.0	660	1	US-08-487-890A-8	Sequence 8, Appli
703	78.5	3.0	1618	2	US-09-538-092-1143	Sequence 1143, Ap	776	78	3.0	660	1	US-08-487-890A-10	Sequence 10, Appl
704	78.5	3.0	1618	2	US-09-731-255-2	Sequence 2, Appli	777	78	3.0	660	1	US-08-478-435-8	Sequence 8, Appli
705	78.5	3.0	1618	2	US-10-136-891-2	Sequence 2, Appli	778	78	3.0	660	1	US-08-478-435-10	Sequence 10, Appl
706	78.5	3.0	1910	2	US-08-956-991-2	Sequence 2, Appli	779	78	3.0	660	1	US-08-337-483-8	Sequence 8, Appli
707	78.5	3.0	4302	2	US-08-658-136-5	Sequence 5, Appli	780	78	3.0	660	1	US-08-337-483-10	Sequence 10, Appl
708	78.5	3.0	4302	2	US-09-052-469-8	Sequence 8, Appli	781	78	3.0	660	1	US-08-478-373-8	Sequence 8, Appli
709	78.5	3.0	4302	2	US-08-422-582-8	Sequence 8, Appli	782	78	3.0	660	1	US-08-478-373-10	Sequence 10, Appl
710	78.5	3.0	4302	2	US-09-052-262-8	Sequence 8, Appli	783	78	3.0	660	2	US-08-474-671-8	Sequence 8, Appli
711	78.5	3.0	4303	1	US-08-460-751-2	Sequence 2, Appli	784	78	3.0	660	2	US-08-474-671-10	Sequence 10, Appl
712	78.5	3.0	4303	2	US-09-479-467A-2	Sequence 2, Appli	785	78	3.0	660	2	US-08-483-577A-8	Sequence 8, Appli
713	78.5	3.0	4303	2	US-09-655-160-2	Sequence 2, Appli	786	78	3.0	660	2	US-08-483-577A-10	Sequence 10, Appl
714	78.5	3.0	4339	2	US-09-052-469-6	Sequence 6, Appli	787	78	3.0	660	2	US-08-897-438-8	Sequence 8, Appli
715	78.5	3.0	4339	2	US-08-422-582-6	Sequence 6, Appli	788	78	3.0	660	2	US-08-897-438-10	Sequence 10, Appl
716	78.5	3.0	4339	2	US-09-052-262-6	Sequence 6, Appli	789	78	3.0	660	2	US-08-637-654-8	Sequence 8, Appli
717	78.5	3.0	5069	2	US-10-042-665A-5	Sequence 5, Appli	790	78	3.0	660	2	US-08-637-654-10	Sequence 10, Appl
718	78	3.0	272	2	US-09-583-110-3866	Sequence 3866, Ap	791	78	3.0	660	2	US-08-649-518-8	Sequence 8, Appli
719	78	3.0	310	2	US-09-107-433-4601	Sequence 4601, Ap	792	78	3.0	660	2	US-08-649-518-10	Sequence 10, Appl
720	78	3.0	317	2	US-09-134-000C-5669	Sequence 5669, Ap	793	78	3.0	772	2	US-09-252-991A-30121	Sequence 30121, A
721	78	3.0	345	2	US-09-583-110-4544	Sequence 4544, Ap	794	78	3.0	789	2	US-09-949-016-7237	Sequence 7237, Ap
722	78	3.0	351	2	US-09-107-433-3960	Sequence 3960, Ap	795	78	3.0	791	2	US-10-055-364-41	Sequence 41, Appl
723	78	3.0	389	2	US-09-928-847B-13	Sequence 13, Appl	796	78	3.0	801	2	US-09-358-755-1	Sequence 1, Appli
724	78	3.0	390	2	US-09-248-796A-17588	Sequence 17588, A	797	78	3.0	816	1	US-07-731-157A-4	Sequence 4, Appli
725	78	3.0	401	2	US-09-252-991A-19899	Sequence 19899, A	798	78	3.0	816	1	US-08-229-444B-2	Sequence 2, Appli
726	78	3.0	456	2	US-09-800-170-15	Sequence 15, Appl	799	78	3.0	816	1	US-08-541-780-4	Sequence 4, Appli
727	78	3.0	464	2	US-09-712-363-182	Sequence 182, App	800	78	3.0	827	2	US-09-543-681A-6425	Sequence 6425, Ap
728	78	3.0	481	1	US-07-754-918A-13	Sequence 13, Appl	801	78	3.0	829	2	US-09-514-599-6	Sequence 6, Appli
729	78	3.0	481	1	US-08-186-811-2	Sequence 2, Appli	802	78	3.0	829	2	US-09-996-024-6	Sequence 6, Appli
730	78	3.0	481	1	US-08-311-611A-98	Sequence 98, Appl	803	78	3.0	879	2	US-09-107-532A-4679	Sequence 4679, Ap
731	78	3.0	481	1	US-08-372-783-98	Sequence 98, Appl	804	78	3.0	883	2	US-09-583-110-2900	Sequence 2900, Ap
732	78	3.0	481	1	US-08-372-105-98	Sequence 98, Appl	805	78	3.0	888	2	US-09-107-433-2964	Sequence 2964, Ap
733	78	3.0	481	1	US-08-306-473A-98	Sequence 98, Appl	806	78	3.0	893	2	US-09-019-160-2	Sequence 2, Appli
734	78	3.0	481	1	US-08-261-660A-4	Sequence 4, Appli	807	78	3.0	927	2	US-09-107-532A-4335	Sequence 4335, Ap
735	78	3.0	481	1	US-08-209-762-98	Sequence 98, Appl	808	78	3.0	1259	2	US-09-187-049-13	Sequence 13, Appl
736	78	3.0	481	1	US-08-473-344-98	Sequence 98, Appl	809	78	3.0	1464	2	US-09-045-360-2	Sequence 2, Appli
737	78	3.0	481	1	US-08-274-303-6	Sequence 6, Appli	810	78	3.0	1464	2	US-09-713-273A-21	Sequence 21, Appl
738	78	3.0	481	1	US-08-377-391A-2	Sequence 2, Appli	811	78	3.0	1464	2	US-09-746-390-2	Sequence 2, Appli
739	78	3.0	481	1	US-08-485-445A-98	Sequence 98, Appl	812	78	3.0	1698	2	US-09-315-793-12	Sequence 12, Appl
740	78	3.0	481	1	US-08-779-400-2	Sequence 2, Appli	813	78	3.0	1896	2	US-09-949-016-9508	Sequence 9508, Ap
741	78	3.0	481	1	US-08-955-660-2	Sequence 2, Appli	814	78	3.0	2324	2	US-09-902-540-9732	Sequence 9732, Ap
742	78	3.0	481	2	US-09-119-263-98	Sequence 98, Appl	815	78	3.0	3519	2	US-09-428-517-4	Sequence 4, Appli
743	78	3.0	481	2	US-08-657-162-98	Sequence 98, Appl	816	77.5	3.0	285	2	US-09-252-991A-29780	Sequence 29780, A
744	78	3.0	481	2	US-09-224-480-98	Sequence 98, Appl	817	77.5	3.0	315	2	US-09-902-540-11852	Sequence 11852, A
745	78	3.0	481	2	US-09-093-539-98	Sequence 98, Appl	818	77.5	3.0	345	2	US-09-328-352-4841	Sequence 4841, Ap
746	78	3.0	481	2	US-09-146-620-2	Sequence 2, Appli	819	77.5	3.0	357	2	US-09-910-174B-14	Sequence 14, Appl
747	78	3.0	481	2	US-09-395-453-2	Sequence 2, Appli	820	77.5	3.0	357	2	US-09-620-461-14	Sequence 14, Appl
748	78	3.0	481	2	US-09-280-909A-4	Sequence 4, Appli	821	77.5	3.0	361	2	US-09-032-372-12	Sequence 12, Appl
749	78	3.0	481	2	US-09-790-230-98	Sequence 98, Appl	822	77.5	3.0	386	2	US-08-972-902-3	Sequence 3, Appli
750	78	3.0	481	2	US-09-949-016-6459	Sequence 6459, Ap	823	77.5	3.0	386	2	US-09-520-207-3	Sequence 3, Appli
751	78	3.0	481	4	PCT-US94-02465-98	Sequence 98, Appl	824	77.5	3.0	386	2	US-10-136-253-3	Sequence 3, Appli
752	78	3.0	481	4	PCT-US94-06931-4	Sequence 4, Appli	825	77.5	3.0	394	2	US-09-252-991A-24485	Sequence 24485, A
753	78	3.0	481	4	PCT-US94-07834-6	Sequence 6, Appli	826	77.5	3.0	447	2	US-09-107-433-3528	Sequence 3528, Ap
754	78	3.0	481	4	PCT-US95-00498-98	Sequence 98, Appl	827	77.5	3.0	499	2	US-09-543-681A-6892	Sequence 6892, Ap
755	78	3.0	481	4	PCT-US95-00656-98	Sequence 98, Appl	828	77.5	3.0	511	1	US-08-220-151-17	Sequence 17, Appl
756	78	3.0	487	2	US-09-248-796A-17413	Sequence 17413, A	829	77.5	3.0	511	1	US-08-413-118-17	Sequence 17, Appl
757	78	3.0	521	2	US-09-508-370A-3	Sequence 3, Appli	830	77.5	3.0	511	2	US-08-473-446-17	Sequence 17, Appl



831	77.5	3.0	527	2	US-09-248-796A-20846	Sequence 20846, A	904	77	2.9	773	1	US-09-218-032-4	Sequence 4, Appli
832	77.5	3.0	528	1	US-08-793-229-35	Sequence 35, Appl	905	77	2.9	850	2	US-09-904-389-2	Sequence 2, Appli
833	77.5	3.0	528	2	US-09-285-957-35	Sequence 35, Appl	906	77	2.9	858	2	US-09-134-000C-5428	Sequence 5428, Ap
834	77.5	3.0	552	2	US-09-295-186-10	Sequence 10, Appl	907	77	2.9	900	2	US-09-252-991A-25011	Sequence 25011, A
835	77.5	3.0	573	2	US-09-295-186-11	Sequence 11, Appl	908	77	2.9	964	2	US-08-484-791-2	Sequence 2, Appli
836	77.5	3.0	614	2	US-09-328-352-4256	Sequence 4256, Ap	909	77	2.9	1156	2	US-09-002-285-72	Sequence 72, Appl
837	77.5	3.0	649	2	US-09-605-703B-68	Sequence 68, Appl	910	77	2.9	1156	2	US-09-589-477-72	Sequence 72, Appl
838	77.5	3.0	669	2	US-09-134-000C-6185	Sequence 6185, Ap	911	77	2.9	1156	2	US-09-661-322A-28	Sequence 28, Appl
839	77.5	3.0	710	1	US-08-162-809-22	Sequence 22, Appl	912	77	2.9	1156	2	US-10-099-285A-72	Sequence 72, Appl
840	77.5	3.0	722	1	US-08-162-809-4	Sequence 4, Appli	913	77	2.9	1157	1	US-08-532-547-5	Sequence 5, Appli
841	77.5	3.0	788	2	US-09-538-092-567	Sequence 567, App	914	77	2.9	1157	1	US-08-379-656B-5	Sequence 5, Appli
842	77.5	3.0	802	2	US-09-134-000C-5150	Sequence 5150, Ap	915	77	2.9	1157	2	US-08-455-838-5	Sequence 5, Appli
843	77.5	3.0	821	3	US-09-377-465A-2	Sequence 2, Appli	916	77	2.9	1157	2	US-09-019-809-5	Sequence 5, Appli
844	77.5	3.0	825	2	US-09-645-835A-2	Sequence 2, Appli	917	77	2.9	1157	2	US-09-471-177-5	Sequence 5, Appli
845	77.5	3.0	834	2	US-10-104-047-2323	Sequence 2323, Ap	918	77	2.9	1157	2	US-09-220-806-5	Sequence 5, Appli
846	77.5	3.0	889	2	US-09-252-991A-30096	Sequence 30096, A	919	77	2.9	1204	2	US-10-449-315-5	Sequence 5, Appli
847	77.5	3.0	908	1	US-08-356-354-6	Sequence 6, Appli	920	77	2.9	1643	2	US-09-515-806-2	Sequence 2, Appli
848	77.5	3.0	908	1	US-08-778-656-6	Sequence 6, Appli	921	77	2.9	2257	2	US-09-839-477-8	Sequence 8, Appli
849	77.5	3.0	908	2	US-09-376-045-6	Sequence 6, Appli	922	77	2.9	2383	2	US-09-492-709A-302	Sequence 302, App
850	77.5	3.0	1091	2	US-09-306-595C-7	Sequence 7, Appli	923	76.5	2.9	227	2	US-09-489-039A-13495	Sequence 13495, A
851	77.5	3.0	1091	2	US-09-925-388-7	Sequence 7, Appli	924	76.5	2.9	293	2	US-09-101-307D-6	Sequence 6, Appli
852	77.5	3.0	1091	2	US-10-431-846-7	Sequence 7, Appli	925	76.5	2.9	314	2	US-09-583-110-3992	Sequence 3992, Ap
853	77.5	3.0	1114	2	US-09-252-991A-24965	Sequence 24965, A	926	76.5	2.9	315	2	US-09-107-433-4625	Sequence 4625, Ap
854	77.5	3.0	1246	2	US-09-252-991A-23140	Sequence 23140, A	927	76.5	2.9	328	2	US-09-489-847-310	Sequence 310, App
855	77.5	3.0	2046	2	US-09-949-016-9365	Sequence 9365, Ap	928	76.5	2.9	349	2	US-10-808-807-4	Sequence 4, Appli
856	77.5	3.0	2482	2	US-09-252-991A-16967	Sequence 16967, A	929	76.5	2.9	374	2	US-09-710-279-2162	Sequence 2162, Ap
857	77.5	3.0	4019	2	US-09-854-133-425	Sequence 425, App	930	76.5	2.9	391	2	US-09-543-681A-5575	Sequence 5575, Ap
858	77	2.9	173	2	US-09-453-976-16	Sequence 16, Appl	931	76.5	2.9	398	2	US-09-242-859A-4	Sequence 4, Appli
859	77	2.9	173	2	US-09-961-453-16	Sequence 16, Appl	932	76.5	2.9	398	2	US-09-242-859A-8	Sequence 8, Appli
860	77	2.9	173	2	US-09-961-507-16	Sequence 16, Appl	933	76.5	2.9	406	2	US-09-134-001C-3202	Sequence 3202, Ap
861	77	2.9	173	2	US-09-961-458-16	Sequence 16, Appl	934	76.5	2.9	407	2	US-08-955-957A-2	Sequence 2, Appli
862	77	2.9	173	2	US-09-961-452A-16	Sequence 16, Appl	935	76.5	2.9	420	2	US-09-134-001C-3103	Sequence 3103, Ap
863	77	2.9	205	2	US-10-012-231A-287	Sequence 287, App	936	76.5	2.9	447	2	US-09-724-623-100	Sequence 100, App
864	77	2.9	205	2	US-10-015-389A-287	Sequence 287, App	937	76.5	2.9	467	2	US-09-489-039A-14156	Sequence 14156, A
865	77	2.9	205	2	US-10-006-768A-287	Sequence 287, App	938	76.5	2.9	494	2	US-08-484-661A-39	Sequence 39, Appl
866	77	2.9	205	2	US-10-015-671A-287	Sequence 287, App	939	76.5	2.9	494	2	US-08-656-664-39	Sequence 39, Appl
867	77	2.9	205	2	US-10-015-393A-287	Sequence 287, App	940	76.5	2.9	494	4	PCT-US96-09641-39	Sequence 39, Appl
868	77	2.9	205	2	US-10-011-833A-287	Sequence 287, App	941	76.5	2.9	511	2	US-09-538-092-606	Sequence 606, App
869	77	2.9	205	2	US-10-006-041A-287	Sequence 287, App	942	76.5	2.9	523	2	US-09-489-039A-14269	Sequence 14269, A
870	77	2.9	205	2	US-10-012-064A-287	Sequence 287, App	943	76.5	2.9	541	2	US-09-949-016-11454	Sequence 11454, A
871	77	2.9	206	2	US-09-205-258-463	Sequence 463, App	944	76.5	2.9	571	2	US-08-484-661A-37	Sequence 37, Appl
872	77	2.9	206	2	US-10-004-860-463	Sequence 463, App	945	76.5	2.9	571	2	US-08-656-664-37	Sequence 37, Appl
873	77	2.9	291	2	US-09-134-000C-3787	Sequence 3787, Ap	946	76.5	2.9	571	4	PCT-US96-09641-37	Sequence 37, Appl
874	77	2.9	335	2	US-09-134-000C-5784	Sequence 5784, Ap	947	76.5	2.9	572	2	US-09-107-433-3479	Sequence 3479, Ap
875	77	2.9	357	2	US-09-134-000C-4405	Sequence 4405, Ap	948	76.5	2.9	578	2	US-08-484-661A-11	Sequence 11, Appl
876	77	2.9	377	2	US-10-037-417-66	Sequence 66, Appl	949	76.5	2.9	578	2	US-08-656-664-11	Sequence 11, Appl
877	77	2.9	378	2	US-09-134-000C-5593	Sequence 5593, Ap	950	76.5	2.9	578	2	US-09-949-016-9799	Sequence 9799, Ap
878	77	2.9	379	2	US-09-692-570-15	Sequence 15, Appl	951	76.5	2.9	578	4	PCT-US96-09641-11	Sequence 11, Appl
879	77	2.9	418	2	US-09-538-092-1122	Sequence 1122, Ap	952	76.5	2.9	596	2	US-09-345-473E-21	Sequence 21, Appl
880	77	2.9	462	2	US-09-248-796A-17149	Sequence 17149, A	953	76.5	2.9	596	2	US-09-862-027-21	Sequence 21, Appl
881	77	2.9	476	2	US-09-188-579-114	Sequence 114, App	954	76.5	2.9	607	2	US-09-949-016-6293	Sequence 6293, Ap
882	77	2.9	476	2	US-09-315-444-114	Sequence 114, App	955	76.5	2.9	610	2	US-08-484-661A-8	Sequence 8, Appli
883	77	2.9	476	2	US-09-721-362-114	Sequence 114, App	956	76.5	2.9	610	2	US-08-484-661A-19	Sequence 19, Appl
884	77	2.9	502	2	US-09-949-016-7837	Sequence 7837, Ap	957	76.5	2.9	610	2	US-08-484-661A-23	Sequence 23, Appl
885	77	2.9	512	2	US-09-543-681A-7997	Sequence 7997, Ap	958	76.5	2.9	610	2	US-08-484-661A-26	Sequence 26, Appl
886	77	2.9	515	2	US-09-543-681A-5651	Sequence 5651, Ap	959	76.5	2.9	610	2	US-08-484-661A-33	Sequence 33, Appl
887	77	2.9	517	2	US-09-902-540-10229	Sequence 10229, A	960	76.5	2.9	610	2	US-08-656-664-8	Sequence 8, Appli
888	77	2.9	521	2	US-09-107-532A-3961	Sequence 3961, Ap	961	76.5	2.9	610	2	US-08-656-664-19	Sequence 19, Appl
889	77	2.9	587	1	US-08-844-280-2	Sequence 2, Appli	962	76.5	2.9	610	2	US-08-656-664-23	Sequence 23, Appl
890	77	2.9	587	2	US-09-006-726-2	Sequence 2, Appli	963	76.5	2.9	610	2	US-08-656-664-26	Sequence 26, Appl
891	77	2.9	610	2	US-09-019-160-4	Sequence 4, Appli	964	76.5	2.9	610	2	US-08-656-664-33	Sequence 33, Appl
892	77	2.9	625	1	US-08-532-547-7	Sequence 7, Appli	965	76.5	2.9	610	4	PCT-US96-09641-8	Sequence 8, Appli
893	77	2.9	625	1	US-08-532-547-9	Sequence 9, Appli	966	76.5	2.9	610	4	PCT-US96-09641-19	Sequence 19, Appl
894	77	2.9	625	2	US-09-019-809-7	Sequence 7, Appli	967	76.5	2.9	610	4	PCT-US96-09641-23	Sequence 23, Appl
895	77	2.9	625	2	US-09-019-809-9	Sequence 9, Appli	968	76.5	2.9	610	4	PCT-US96-09641-26	Sequence 26, Appl
896	77	2.9	625	2	US-09-471-177-7	Sequence 7, Appli	969	76.5	2.9	610	4	PCT-US96-09641-33	Sequence 33, Appl
897	77	2.9	625	2	US-09-471-177-9	Sequence 9, Appli	970	76.5	2.9	732	2	US-09-107-532A-6192	Sequence 6192, Ap
898	77	2.9	637	2	US-09-134-000C-4594	Sequence 4594, Ap	971	76.5	2.9	745	2	US-09-543-681A-4267	Sequence 4267, Ap
899	77	2.9	649	2	US-10-104-047-3492	Sequence 3492, Ap	972	76.5	2.9	750	2	US-09-248-796A-14886	Sequence 14886, A
900	77	2.9	751	2	US-09-252-991A-22770	Sequence 22770, A	973	76.5	2.9	775	2	US-09-107-532A-6639	Sequence 6639, Ap
901	77	2.9	773	1	US-08-966-389-4	Sequence 4, Appli	974	76.5	2.9	800	2	US-09-489-039A-10358	Sequence 10358, A
902	77	2.9	773	1	US-09-103-509-4	Sequence 4, Appli	975	76.5	2.9	857	2	US-09-902-540-12312	Sequence 12312, A
903	77	2.9	773	1	US-09-102-644-4	Sequence 4, Appli	976	76.5	2.9	883	2	US-09-248-796A-14418	Sequence 14418, A

977	76.5	2.9	887	2	US-08-472-240A-5	Sequence 5, Appli	1050	75.5	2.9	301	2	US-09-134-000C-6225	Sequence 6225, Ap
978	76.5	2.9	944	2	US-09-328-352-4401	Sequence 4401, Ap	1051	75.5	2.9	313	2	US-09-148-545-236	Sequence 236, App
979	76.5	2.9	959	2	US-09-949-016-6904	Sequence 6904, Ap	1052	75.5	2.9	313	2	US-09-248-796A-15393	Sequence 15393, A
980	76.5	2.9	974	2	US-09-540-236-2913	Sequence 2913, Ap	1053	75.5	2.9	313	2	US-09-621-011-236	Sequence 236, App
981	76.5	2.9	981	2	US-09-949-016-11647	Sequence 11647, A	1054	75.5	2.9	327	2	US-09-585-858-53	Sequence 53, Appl
982	76.5	2.9	981	2	US-09-949-016-11648	Sequence 11648, A	1055	75.5	2.9	327	2	US-10-270-878-53	Sequence 53, Appl
983	76.5	2.9	1010	2	US-09-654-449-2	Sequence 2, Appli	1056	75.5	2.9	362	2	US-09-134-000C-6241	Sequence 6241, Ap
984	76.5	2.9	1010	2	US-09-759-152A-2	Sequence 2, Appli	1057	75.5	2.9	375	2	US-09-248-796A-18358	Sequence 18358, A
985	76.5	2.9	1010	2	US-09-654-499-2	Sequence 2, Appli	1058	75.5	2.9	389	2	US-09-134-000C-5942	Sequence 5942, Ap
986	76.5	2.9	1121	1	US-07-789-915A-2	Sequence 2, Appli	1059	75.5	2.9	410	1	US-08-792-283A-2	Sequence 2, Appli
987	76.5	2.9	1121	1	US-08-005-002C-2	Sequence 2, Appli	1060	75.5	2.9	410	1	US-09-105-908-2	Sequence 2, Appli
988	76.5	2.9	1121	1	US-08-487-203A-2	Sequence 2, Appli	1061	75.5	2.9	410	2	US-09-271-713-2	Sequence 2, Appli
989	76.5	2.9	1190	2	US-09-107-532A-7146	Sequence 7146, Ap	1062	75.5	2.9	412	2	US-09-950-772-6	Sequence 6, Appli
990	76.5	2.9	1334	6	5476657-1	Patent No. 5476657	1063	75.5	2.9	444	2	US-09-248-796A-23448	Sequence 23448, A
991	76.5	2.9	1338	2	US-09-949-016-6029	Sequence 6029, Ap	1064	75.5	2.9	447	2	US-09-610-104C-2	Sequence 2, Appli
992	76.5	2.9	1367	2	US-09-716-964B-138	Sequence 138, App	1065	75.5	2.9	476	2	US-09-134-218-6	Sequence 6, Appli
993	76.5	2.9	1403	1	US-07-908-253-3	Sequence 3, Appli	1066	75.5	2.9	493	2	US-09-543-681A-8173	Sequence 8173, Ap
994	76.5	2.9	1403	1	US-08-694-865-17	Sequence 17, Appl	1067	75.5	2.9	504	2	US-09-489-039A-14248	Sequence 14248, A
995	76.5	2.9	1403	1	US-08-535-837-3	Sequence 3, Appli	1068	75.5	2.9	518	2	US-09-328-352-7332	Sequence 7332, Ap
996	76.5	2.9	1403	2	US-09-124-491-17	Sequence 17, Appl	1069	75.5	2.9	520	2	US-09-328-352-7451	Sequence 7451, Ap
997	76.5	2.9	1403	2	US-09-383-912-17	Sequence 17, Appl	1070	75.5	2.9	523	2	US-09-198-452A-1101	Sequence 1101, Ap
998	76.5	2.9	2549	2	US-08-265-967C-1	Sequence 1, Appli	1071	75.5	2.9	528	2	US-09-438-185A-1028	Sequence 1028, Ap
999	76.5	2.9	2549	2	US-08-305-790B-2	Sequence 2, Appli	1072	75.5	2.9	575	1	US-08-348-920-1	Sequence 1, Appli
1000	76.5	2.9	2616	6	5206163-3	Patent No. 5206163	1073	75.5	2.9	603	2	US-09-732-615-2	Sequence 2, Appli
1001	76.5	2.9	3135	1	US-08-323-170B-2	Sequence 2, Appli	1074	75.5	2.9	603	2	US-10-273-051-2	Sequence 2, Appli
1002	76.5	2.9	3135	2	US-08-954-441-2	Sequence 2, Appli	1075	75.5	2.9	625	2	US-08-759-436-3	Sequence 3, Appli
1003	76	2.9	239	2	US-09-830-230A-242	Sequence 242, App	1076	75.5	2.9	625	2	US-08-759-436-5	Sequence 5, Appli
1004	76	2.9	245	2	US-08-836-687B-33	Sequence 33, Appl	1077	75.5	2.9	699	2	US-10-012-231A-12	Sequence 12, Appl
1005	76	2.9	273	2	US-09-830-230A-241	Sequence 241, App	1078	75.5	2.9	699	2	US-10-015-389A-12	Sequence 12, Appl
1306	76	2.9	304	2	US-09-248-796A-14813	Sequence 14813, A	1079	75.5	2.9	699	2	US-10-006-768A-12	Sequence 12, Appl
1007	76	2.9	315	2	US-09-492-709A-306	Sequence 306, App	1080	75.5	2.9	699	2	US-10-015-671A-12	Sequence 12, Appl
1008	76	2.9	333	2	US-09-710-279-1960	Sequence 1960, Ap	1081	75.5	2.9	699	2	US-10-015-393A-12	Sequence 12, Appl
1009	76	2.9	360	2	US-09-489-039A-13634	Sequence 13634, A	1082	75.5	2.9	699	2	US-10-011-833A-12	Sequence 12, Appl
1010	76	2.9	369	2	US-09-134-001C-5149	Sequence 5149, Ap	1083	75.5	2.9	699	2	US-10-006-041A-12	Sequence 12, Appl
1011	76	2.9	382	2	US-09-328-352-7586	Sequence 7586, Ap	1084	75.5	2.9	699	2	US-10-012-064A-12	Sequence 12, Appl
1012	76	2.9	393	2	US-09-252-991A-18162	Sequence 18162, A	1085	75.5	2.9	730	2	US-09-328-352-4442	Sequence 4442, Ap
1013	76	2.9	398	2	US-09-543-681A-6610	Sequence 6610, Ap	1086	75.5	2.9	737	2	US-10-070-634-3	Sequence 3, Appli
1014	76	2.9	398	2	US-09-583-110-3408	Sequence 3408, Ap	1087	75.5	2.9	739	2	US-09-543-681A-6437	Sequence 6437, Ap
1015	76	2.9	413	2	US-09-248-796A-14455	Sequence 14455, A	1088	75.5	2.9	742	2	US-09-107-532A-6890	Sequence 6890, Ap
1016	76	2.9	422	2	US-09-949-016-11004	Sequence 11004, A	1089	75.5	2.9	747	2	US-09-902-540-16170	Sequence 16170, A
1017	76	2.9	447	2	US-10-082-272-2	Sequence 2, Appli	1090	75.5	2.9	749	2	US-09-562-737-93	Sequence 93, Appl
1018	76	2.9	481	2	US-08-431-517F-2	Sequence 2, Appli	1091	75.5	2.9	818	2	US-09-328-352-5208	Sequence 5208, Ap
1019	76	2.9	497	2	US-09-710-279-2812	Sequence 2812, Ap	1092	75.5	2.9	857	2	US-09-275-252A-11	Sequence 11, Appl
1020	76	2.9	532	1	US-08-899-324-33	Sequence 33, Appl	1093	75.5	2.9	868	2	US-09-949-016-11723	Sequence 11723, A
1021	76	2.9	532	2	US-08-329-892B-33	Sequence 33, Appl	1094	75.5	2.9	931	2	US-09-949-016-10552	Sequence 10552, A
1022	76	2.9	538	2	US-09-252-991A-17359	Sequence 17359, A	1095	75.5	2.9	1063	2	US-09-595-857B-29	Sequence 29, Appl
1023	76	2.9	576	2	US-09-248-796A-20180	Sequence 20180, A	1096	75.5	2.9	1077	2	US-09-390-234-12	Sequence 12, Appl
1024	76	2.9	597	2	US-09-489-039A-12394	Sequence 12394, A	1097	75.5	2.9	1077	2	US-09-603-311-12	Sequence 12, Appl
1025	76	2.9	617	2	US-09-107-433-4596	Sequence 4596, Ap	1098	75.5	2.9	1138	1	US-07-973-320-2	Sequence 2, Appli
1026	76	2.9	648	2	US-09-183-706-43	Sequence 43, Appl	1099	75.5	2.9	1138	1	US-07-973-320-4	Sequence 4, Appli
1027	76	2.9	648	2	US-09-567-995-43	Sequence 43, Appl	1100	75.5	2.9	1164	2	US-09-949-016-11682	Sequence 11682, A
1028	76	2.9	649	2	US-09-830-230A-238	Sequence 238, App	1101	75.5	2.9	1185	2	US-09-134-001C-5276	Sequence 5276, Ap
1029	76	2.9	657	2	US-09-252-991A-27358	Sequence 27358, A	1102	75.5	2.9	1202	2	US-09-328-352-6889	Sequence 6889, Ap
1030	76	2.9	658	2	US-09-583-110-4743	Sequence 4743, Ap	1103	75.5	2.9	1255	2	US-09-248-796A-14158	Sequence 14158, A
1031	76	2.9	668	2	US-09-830-230A-237	Sequence 237, App	1104	75.5	2.9	1275	2	US-08-426-630-49	Sequence 49, Appl
1032	76	2.9	727	2	US-09-543-681A-6701	Sequence 6701, Ap	1105	75.5	2.9	1316	2	US-09-712-363-177	Sequence 177, App
1033	76	2.9	749	2	US-09-562-737-91	Sequence 91, Appl	1106	75.5	2.9	1323	2	US-09-949-016-6553	Sequence 6553, Ap
1034	76	2.9	776	2	US-09-698-341-2	Sequence 2, Appli	1107	75.5	2.9	1330	2	US-09-543-681A-8057	Sequence 8057, Ap
1035	76	2.9	824	2	US-09-134-000C-4908	Sequence 4908, Ap	1108	75.5	2.9	1435	2	US-09-949-016-9942	Sequence 9942, Ap
1036	76	2.9	855	2	US-10-104-047-2387	Sequence 2387, Ap	1109	75.5	2.9	1435	2	US-09-949-016-9943	Sequence 9943, Ap
1037	76	2.9	915	2	US-09-949-016-7628	Sequence 7628, Ap	1110	75.5	2.9	1435	2	US-09-949-016-9944	Sequence 9944, Ap
1038	76	2.9	955	1	US-08-500-857A-10	Sequence 10, Appl	1111	75.5	2.9	1529	2	US-09-107-433-4771	Sequence 4771, Ap
1039	76	2.9	1028	2	US-09-328-352-5749	Sequence 5749, Ap	1112	75.5	2.9	2237	1	US-08-354-973-1	Sequence 1, Appli
1040	76	2.9	1089	2	US-09-902-540-14239	Sequence 14239, A	1113	75.5	2.9	2364	2	US-09-538-092-1243	Sequence 1243, Ap
1041	76	2.9	1120	2	US-09-792-024-86	Sequence 86, Appl	1114	75	2.9	190	2	US-09-252-991A-19148	Sequence 19148, A
1042	76	2.9	1151	2	US-08-840-006-6	Sequence 6, Appli	1115	75	2.9	201	1	US-08-236-427-3	Sequence 3, Appli
1043	76	2.9	1200	2	US-08-840-006-5	Sequence 5, Appli	1116	75	2.9	285	2	US-09-270-767-42260	Sequence 42260, A
1044	76	2.9	1300	2	US-09-698-341-3	Sequence 3, Appli	1117	75	2.9	314	2	US-08-981-957D-13	Sequence 13, Appl
1045	76	2.9	1349	2	US-08-943-144-4	Sequence 4, Appli	1118	75	2.9	314	2	US-09-982-704-13	Sequence 13, Appl
1046	76	2.9	2254	1	US-08-677-010-3	Sequence 3, Appli	1119	75	2.9	315	2	US-08-793-035-9	Sequence 9, Appli
1047	76	2.9	2254	1	US-08-790-519-3	Sequence 3, Appli	1120	75	2.9	315	2	US-08-793-035-10	Sequence 10, Appl
1048	76	2.9	2472	2	US-09-538-092-1312	Sequence 1312, Ap	1121	75	2.9	353	2	US-09-543-681A-6054	Sequence 6054, Ap
1049	76	2.9	2749	2	US-09-385-222A-4	Sequence 4, Appli	1122	75	2.9	357	2	US-09-489-039A-13443	Sequence 13443, A



1123	75	2.9	358	2	US-09-543-681A-7838	Sequence 7838, Ap	1196	74.5	2.8	473	2	US-09-540-236-2543	Sequence 2543, Ap
1124	75	2.9	367	2	US-09-248-796A-18155	Sequence 18155, A	1197	74.5	2.8	473	2	US-09-949-016-9820	Sequence 9820, Ap
1125	75	2.9	374	2	US-09-710-279-1664	Sequence 1664, Ap	1198	74.5	2.8	480	2	US-09-171-482-2	Sequence 2, Appli
1126	75	2.9	389	2	US-09-134-001C-3161	Sequence 3161, Ap	1199	74.5	2.8	489	2	US-09-949-016-10775	Sequence 10775, A
1127	75	2.9	400	2	US-09-797-464A-4	Sequence 4, Appli	1200	74.5	2.8	507	2	US-09-248-796A-15920	Sequence 15920, A
1128	75	2.9	423	2	US-09-328-352-5224	Sequence 5224, Ap	1201	74.5	2.8	509	2	US-09-134-078-18	Sequence 18, Appl
1129	75	2.9	477	1	US-07-847-562-2	Sequence 2, Appli	1202	74.5	2.8	529	2	US-09-252-991A-27659	Sequence 27659, A
1130	75	2.9	477	1	US-08-240-328-2	Sequence 2, Appli	1203	74.5	2.8	541	2	US-08-687-590-28	Sequence 28, Appl
1131	75	2.9	477	1	US-08-990-849-2	Sequence 2, Appli	1204	74.5	2.8	541	2	US-09-311-311C-25	Sequence 25, Appl
1132	75	2.9	481	1	US-08-215-089-9	Sequence 9, Appli	1205	74.5	2.8	554	2	US-09-902-540-15061	Sequence 15061, A
1133	75	2.9	481	2	US-08-431-517F-11	Sequence 11, Appl	1206	74.5	2.8	565	2	US-09-248-796A-15341	Sequence 15341, A
1134	75	2.9	498	4	PCT-US95-03384-9	Sequence 9, Appli	1207	74.5	2.8	591	2	US-09-248-796A-18374	Sequence 18374, A
1135	75	2.9	498	2	US-09-232-468A-18	Sequence 18, Appl	1208	74.5	2.8	601	2	US-09-270-767-42194	Sequence 42194, A
1136	75	2.9	498	2	US-09-784-984B-52	Sequence 52, Appl	1209	74.5	2.8	607	2	US-09-198-452A-374	Sequence 374, App
1137	75	2.9	501	2	US-09-934-901-20	Sequence 20, Appl	1210	74.5	2.8	608	2	US-09-438-185A-361	Sequence 361, App
1138	75	2.9	501	2	US-09-934-868-10	Sequence 10, Appl	1211	74.5	2.8	623	2	US-09-902-540-10027	Sequence 10027, A
1139	75	2.9	501	2	US-10-321-210-20	Sequence 20, Appl	1212	74.5	2.8	625	2	US-08-581-148C-18	Sequence 18, Appl
1140	75	2.9	501	2	US-10-320-874-20	Sequence 20, Appl	1213	74.5	2.8	630	2	US-08-973-462-9	Sequence 9, Appli
1141	75	2.9	501	2	US-10-320-924-20	Sequence 20, Appl	1214	74.5	2.8	637	2	US-09-360-545-6	Sequence 6, Appli
1142	75	2.9	501	2	US-10-701-200-10	Sequence 10, Appl	1215	74.5	2.8	637	2	US-09-398-395A-58	Sequence 58, Appl
1143	75	2.9	502	2	US-09-328-352-5891	Sequence 5891, Ap	1216	74.5	2.8	637	2	US-09-887-586A-58	Sequence 58, Appl
1144	75	2.9	557	2	US-09-538-092-242	Sequence 242, App	1217	74.5	2.8	637	2	US-09-895-752-58	Sequence 58, Appl
1145	75	2.9	558	2	US-09-540-236-2943	Sequence 2943, Ap	1218	74.5	2.8	637	2	US-09-903-012B-58	Sequence 58, Appl
1146	75	2.9	566	2	US-09-949-016-8505	Sequence 8505, Ap	1219	74.5	2.8	637	2	US-09-900-797-58	Sequence 58, Appl
1147	75	2.9	566	2	US-09-949-002-452	Sequence 452, App	1220	74.5	2.8	637	2	US-09-893-820-58	Sequence 58, Appl
1148	75	2.9	600	2	US-09-252-991A-28916	Sequence 28916, A	1221	74.5	2.8	637	2	US-10-041-007-24	Sequence 24, Appl
1149	75	2.9	603	2	US-09-396-149-8	Sequence 8, Appli	1222	74.5	2.8	698	2	US-09-107-532A-5685	Sequence 5685, Ap
1150	75	2.9	639	2	US-09-248-796A-20583	Sequence 20583, A	1223	74.5	2.8	722	2	US-09-433-043B-125	Sequence 125, App
1151	75	2.9	714	2	US-09-492-709A-253	Sequence 253, App	1224	74.5	2.8	781	2	US-10-040-802-10	Sequence 10, Appl
1152	75	2.9	745	2	US-09-902-540-10275	Sequence 10275, A	1225	74.5	2.8	824	2	US-09-252-991A-32329	Sequence 32329, A
1153	75	2.9	820	2	US-09-583-110-4219	Sequence 4219, Ap	1226	74.5	2.8	833	2	US-10-190-967-2	Sequence 2, Appli
1154	75	2.9	822	2	US-09-824-734-3	Sequence 3, Appli	1227	74.5	2.8	905	2	US-09-134-001C-3782	Sequence 3782, Ap
1155	75	2.9	834	2	US-09-107-433-4760	Sequence 4760, Ap	1228	74.5	2.8	943	2	US-09-902-540-10641	Sequence 10641, A
1156	75	2.9	836	2	US-09-252-991A-23513	Sequence 23513, A	1229	74.5	2.8	968	2	US-09-228-986-76	Sequence 76, Appl
1157	75	2.9	848	2	US-09-902-540-14707	Sequence 14707, A	1230	74.5	2.8	968	2	US-10-101-464A-76	Sequence 76, Appl
1158	75	2.9	853	1	US-08-468-558-3	Sequence 3, Appli	1231	74.5	2.8	989	1	US-08-070-301-14	Sequence 14, Appl
1159	75	2.9	853	2	US-09-354-129-10	Sequence 10, Appl	1232	74.5	2.8	990	2	US-09-540-236-3360	Sequence 3360, Ap
1160	75	2.9	853	2	US-08-676-444-3	Sequence 3, Appli	1233	74.5	2.8	1037	2	US-09-134-001C-4794	Sequence 4794, Ap
1161	75	2.9	853	2	US-09-504-357-10	Sequence 10, Appl	1234	74.5	2.8	1131	2	US-09-487-558B-72	Sequence 72, Appl
1162	75	2.9	878	2	US-09-489-039A-13174	Sequence 13174, A	1235	74.5	2.8	1196	2	US-10-104-047-2933	Sequence 2933, Ap
1163	75	2.9	882	2	US-09-252-991A-24619	Sequence 24619, A	1236	74.5	2.8	1363	2	US-09-252-991A-21342	Sequence 21342, A
1164	75	2.9	926	2	US-09-252-991A-31053	Sequence 31053, A	1237	74.5	2.8	1792	1	US-08-962-284-4	Sequence 4, Appli
1165	75	2.9	942	1	US-08-141-324-14	Sequence 14, Appl	1238	74.5	2.8	1809	2	US-09-012-515A-12	Sequence 12, Appl
1166	75	2.9	942	1	US-08-541-902-14	Sequence 14, Appl	1239	74.5	2.8	1809	2	US-08-360-144A-12	Sequence 12, Appl
1167	75	2.9	944	2	US-09-949-016-6650	Sequence 6650, Ap	1240	74.5	2.8	1809	2	US-09-012-504A-12	Sequence 12, Appl
1168	75	2.9	987	2	US-09-540-236-3017	Sequence 3017, Ap	1241	74.5	2.8	1809	2	US-09-012-399A-12	Sequence 12, Appl
1169	75	2.9	988	2	US-09-252-991A-29699	Sequence 29699, A	1242	74.5	2.8	1809	2	US-09-949-016-7999	Sequence 7999, Ap
1170	75	2.9	1044	2	US-09-893-371A-1	Sequence 1, Appli	1243	74.5	2.8	2172	1	US-08-611-107-31	Sequence 31, Appl
1171	75	2.9	1112	1	US-08-714-402-2	Sequence 2, Appli	1244	74.5	2.8	2549	2	US-08-471-112A-3	Sequence 3, Appli
1172	75	2.9	1160	2	US-09-328-352-6457	Sequence 6457, Ap	1245	74.5	2.8	2549	2	US-09-950-634-3	Sequence 3, Appli
1173	75	2.9	1211	2	US-09-491-522-5	Sequence 5, Appli	1246	74.5	2.8	2549	2	US-09-538-092-1112	Sequence 1112, Ap
1174	75	2.9	1211	2	US-09-949-016-11401	Sequence 11401, A	1247	74.5	2.8	2549	4	PCT-US95-06722-12	Sequence 12, Appl
1175	75	2.9	1211	2	US-09-949-002-555	Sequence 555, App	1248	74.5	2.8	4866	2	US-09-424-783-2	Sequence 2, Appli
1176	75	2.9	1711	2	US-08-369-822C-10	Sequence 10, Appl	1249	74	2.8	173	2	US-09-853-832-16	Sequence 16, Appl
1177	75	2.9	1711	2	US-08-582-776C-10	Sequence 10, Appl	1250	74	2.8	173	2	US-10-300-818-16	Sequence 16, Appl
1178	75	2.9	1711	2	US-08-434-831B-10	Sequence 10, Appl	1251	74	2.8	181	2	US-09-710-279-86	Sequence 86, Appl
1179	75	2.9	3072	2	US-09-413-814-93	Sequence 93, Appl	1252	74	2.8	201	2	US-09-134-001C-3742	Sequence 3742, Ap
1180	74.5	2.8	177	2	US-09-489-039A-10826	Sequence 10826, A	1253	74	2.8	206	2	US-09-710-279-1514	Sequence 1514, Ap
1181	74.5	2.8	236	1	US-08-307-499-28	Sequence 28, Appl	1254	74	2.8	206	2	US-08-705-245-13	Sequence 13, Appl
1182	74.5	2.8	236	2	US-09-299-268-28	Sequence 28, Appl	1255	74	2.8	246	2	US-09-902-540-15036	Sequence 15036, A
1183	74.5	2.8	243	2	US-09-252-991A-32483	Sequence 32483, A	1256	74	2.8	295	2	US-09-461-325-193	Sequence 193, App
1184	74.5	2.8	300	2	US-09-605-703B-730	Sequence 730, App	1257	74	2.8	295	2	US-10-012-542-193	Sequence 193, App
1185	74.5	2.8	300	2	US-09-605-703B-732	Sequence 732, App	1258	74	2.8	295	2	US-10-115-123-193	Sequence 11, Appl
1186	74.5	2.8	326	2	US-09-902-540-15158	Sequence 15158, A	1259	74	2.8	325	2	US-09-194-905-11	Sequence 11, Appl
1187	74.5	2.8	336	2	US-09-252-991A-24121	Sequence 24121, A	1260	74	2.8	325	2	US-09-922-683-11	Sequence 4551, Ap
1188	74.5	2.8	396	2	US-09-252-991A-23803	Sequence 23803, A	1261	74	2.8	325	2	US-09-583-110-4551	Sequence 20854, A
1189	74.5	2.8	403	1	US-07-672-304-6	Sequence 6, Appli	1262	74	2.8	328	2	US-09-328-352-7641	Sequence 7641, Ap
1190	74.5	2.8	403	2	US-08-776-246-4	Sequence 4, Appli	1263	74	2.8	339	2	US-09-252-991A-20854	Sequence 7025, Ap
1191	74.5	2.8	432	2	US-09-902-540-12060	Sequence 12060, A	1264	74	2.8	358	2	US-09-543-681A-7025	Sequence 2, Appli
1192	74.5	2.8	439	2	US-09-134-001C-4903	Sequence 4903, Ap	1265	74	2.8	361	2	US-08-860-368B-2	Sequence 19674, A
1193	74.5	2.8	448	2	US-09-489-039A-8657	Sequence 8657, Ap	1266	74	2.8	367	2		
1194	74.5	2.8	464	2	US-09-540-236-3564	Sequence 3564, Ap	1267	74	2.8	394	2		
1195	74.5	2.8	473	2	US-09-134-001C-4773	Sequence 4773, Ap	1268	74	2.8	394	2		

1269	74	2.8	395	2	US-09-134-001C-3723	Sequence 3723, Ap	1342	74	2.8	1804	2	US-09-362-336A-4	Sequence 4, Appli
1270	74	2.8	418	2	US-09-328-352-4525	Sequence 4525, Ap	1343	74	2.8	1958	2	US-10-152-886-53	Sequence 53, Appl
1271	74	2.8	420	2	US-09-758-759-121	Sequence 121, App	1344	74	2.8	2470	2	US-08-265-967C-2	Sequence 2, Appli
1272	74	2.8	428	2	US-09-949-016-9739	Sequence 9739, Ap	1345	74	2.8	2470	2	US-08-305-790B-3	Sequence 3, Appli
1273	74	2.8	429	2	US-09-830-230A-22	Sequence 22, Appl	1346	74	2.8	3290	2	US-09-328-352-5486	Sequence 5486, Ap
1274	74	2.8	430	2	US-09-792-420-2	Sequence 2, Appli	1347	73.5	2.8	133	1	US-07-846-992-3	Sequence 3, Appli
1275	74	2.8	432	2	US-09-902-540-15774	Sequence 15774, A	1348	73.5	2.8	133	1	US-08-469-555-3	Sequence 3, Appli
1276	74	2.8	441	2	US-09-052-778-14	Sequence 14, Appl	1349	73.5	2.8	225	2	US-09-134-000C-6465	Sequence 6465, Ap
1277	74	2.8	443	2	US-09-949-016-6420	Sequence 6420, Ap	1350	73.5	2.8	274	2	US-09-252-991A-23361	Sequence 23361, A
1278	74	2.8	443	2	US-09-830-230A-21	Sequence 21, Appl	1351	73.5	2.8	313	2	US-09-902-540-14967	Sequence 14967, A
1279	74	2.8	444	2	US-09-271-608-8	Sequence 8, Appli	1352	73.5	2.8	333	2	US-09-120-051D-41	Sequence 41, Appl
1280	74	2.8	444	2	US-09-695-950-8	Sequence 8, Appli	1353	73.5	2.8	333	2	US-09-120-051D-59	Sequence 59, Appl
1281	74	2.8	444	2	US-09-696-147-8	Sequence 8, Appli	1354	73.5	2.8	334	2	US-09-252-991A-22395	Sequence 22395, A
1282	74	2.8	444	2	US-09-696-364-8	Sequence 8, Appli	1355	73.5	2.8	341	2	US-09-401-636-3	Sequence 3, Appli
1283	74	2.8	444	2	US-10-043-452A-8	Sequence 8, Appli	1356	73.5	2.8	353	2	US-09-120-051D-2	Sequence 2, Appli
1284	74	2.8	447	2	US-09-605-703B-1482	Sequence 1482, Ap	1357	73.5	2.8	367	1	US-08-515-251A-4	Sequence 4, Appli
1285	74	2.8	449	2	US-09-270-767-57465	Sequence 57465, A	1358	73.5	2.8	372	2	US-08-998-416-4	Sequence 4, Appli
1286	74	2.8	455	2	US-09-134-000C-6074	Sequence 6074, Ap	1359	73.5	2.8	375	2	US-09-171-337A-7	Sequence 7, Appli
1287	74	2.8	458	2	US-09-407-062-9	Sequence 9, Appli	1360	73.5	2.8	375	2	US-09-631-022-7	Sequence 7, Appli
1288	74	2.8	478	2	US-09-489-039A-7300	Sequence 7300, Ap	1361	73.5	2.8	379	2	US-09-724-797-54	Sequence 7, Appli
1289	74	2.8	490	2	US-09-902-540-10306	Sequence 10306, A	1362	73.5	2.8	389	2	US-09-902-540-12890	Sequence 54, Appl
1290	74	2.8	493	2	US-08-657-749D-2	Sequence 2, Appli	1363	73.5	2.8	393	2	US-09-242-859A-13	Sequence 13, Appl
1291	74	2.8	495	2	US-09-991-552-20	Sequence 20, Appl	1364	73.5	2.8	407	2	US-09-583-110-3040	Sequence 3040, Ap
1292	74	2.8	498	2	US-09-232-468A-24	Sequence 24, Appl	1365	73.5	2.8	408	2	US-09-107-433-3199	Sequence 3199, Ap
1293	74	2.8	498	2	US-09-784-984B-54	Sequence 54, Appl	1366	73.5	2.8	412	2	US-09-423-439-10	Sequence 10, Appl
1294	74	2.8	500	2	US-09-540-236-2597	Sequence 2597, Ap	1367	73.5	2.8	418	2	US-09-958-548-1	Sequence 1, Appli
1295	74	2.8	511	2	US-10-104-047-2339	Sequence 2339, Ap	1368	73.5	2.8	437	2	US-09-248-796A-18684	Sequence 18684, A
1296	74	2.8	533	2	US-09-605-703B-1480	Sequence 1480, Ap	1369	73.5	2.8	441	2	US-09-107-532A-5054	Sequence 5054, Ap
1297	74	2.8	541	2	US-09-328-352-7237	Sequence 7237, Ap	1370	73.5	2.8	442	2	US-09-489-039A-10439	Sequence 10439, A
1298	74	2.8	546	2	US-09-489-039A-9631	Sequence 9631, Ap	1371	73.5	2.8	446	2	US-09-902-540-12791	Sequence 12791, A
1299	74	2.8	566	2	US-09-491-522-7	Sequence 7, Appli	1372	73.5	2.8	451	2	US-09-417-251A-18	Sequence 18, Appl
1300	74	2.8	566	2	US-09-949-016-7010	Sequence 7010, Ap	1373	73.5	2.8	451	2	US-09-417-251A-18	Sequence 18, Appl
1301	74	2.8	568	2	US-09-218-702-4	Sequence 4, Appli	1374	73.5	2.8	455	2	US-09-036-987A-17	Sequence 17, Appl
1302	74	2.8	591	2	US-09-252-991A-26716	Sequence 26716, A	1375	73.5	2.8	455	2	US-09-370-700-17	Sequence 17, Appl
1303	74	2.8	608	2	US-09-949-016-8981	Sequence 8981, Ap	1376	73.5	2.8	455	2	US-09-603-207-17	Sequence 17, Appl
1304	74	2.8	608	2	US-09-949-016-11561	Sequence 11561, A	1377	73.5	2.8	473	2	US-09-701-896-6	Sequence 6, Appli
1305	74	2.8	612	2	US-09-248-796A-18533	Sequence 18533, A	1378	73.5	2.8	493	2	US-09-949-016-5911	Sequence 5911, Ap
1306	74	2.8	615	1	US-08-663-566A-17	Sequence 17, Appl	1379	73.5	2.8	509	2	US-09-252-991A-28680	Sequence 28680, A
1307	74	2.8	615	1	US-08-023-610-17	Sequence 17, Appl	1380	73.5	2.8	515	2	US-08-369-822C-23	Sequence 23, Appl
1308	74	2.8	615	1	US-08-288-065A-17	Sequence 17, Appl	1381	73.5	2.8	515	2	US-08-582-776C-38	Sequence 38, Appl
1309	74	2.8	615	1	US-08-362-240A-17	Sequence 17, Appl	1382	73.5	2.8	515	2	US-08-434-831B-35	Sequence 35, Appl
1310	74	2.8	615	4	PCT-US95-10245-17	Sequence 17, Appl	1383	73.5	2.8	530	2	US-09-949-016-10017	Sequence 10017, A
1311	74	2.8	635	2	US-09-341-833A-6	Sequence 6, Appli	1384	73.5	2.8	534	2	US-09-198-603C-6	Sequence 6, Appli
1312	74	2.8	635	2	US-09-341-833A-7	Sequence 7, Appli	1385	73.5	2.8	534	2	US-09-919-497-87	Sequence 87, Appl
1313	74	2.8	635	2	US-09-341-833A-9	Sequence 9, Appli	1386	73.5	2.8	564	2	US-08-776-059-35	Sequence 35, Appl
1314	74	2.8	639	2	US-09-328-352-7786	Sequence 7786, Ap	1387	73.5	2.8	566	2	US-09-252-991A-26648	Sequence 26648, A
1315	74	2.8	651	2	US-09-248-796A-18051	Sequence 18051, A	1388	73.5	2.8	571	2	US-09-248-796A-19310	Sequence 19310, A
1316	74	2.8	652	2	US-09-605-703B-2588	Sequence 2588, Ap	1389	73.5	2.8	575	1	US-08-348-920-2	Sequence 2, Appli
1317	74	2.8	668	2	US-09-252-991A-26712	Sequence 26712, A	1390	73.5	2.8	578	2	US-09-248-796A-14784	Sequence 14784, A
1318	74	2.8	668	2	US-09-538-092-599	Sequence 599, App	1391	73.5	2.8	583	2	US-09-107-532A-5678	Sequence 5678, Ap
1319	74	2.8	673	2	US-09-252-991A-23922	Sequence 23922, A	1392	73.5	2.8	585	2	US-09-710-279-2124	Sequence 2124, Ap
1320	74	2.8	677	2	US-09-341-833A-8	Sequence 8, Appli	1393	73.5	2.8	601	2	US-09-134-001C-3791	Sequence 3791, Ap
1321	74	2.8	721	2	US-09-134-000C-5466	Sequence 5466, Ap	1394	73.5	2.8	629	2	US-09-248-796A-19860	Sequence 19860, A
1322	74	2.8	876	1	US-08-717-515-4	Sequence 4, Appli	1395	73.5	2.8	637	2	US-09-360-545-69	Sequence 69, Appl
1323	74	2.8	911	2	US-08-461-562B-2	Sequence 2, Appli	1396	73.5	2.8	637	2	US-10-041-007-28	Sequence 28, Appl
1324	74	2.8	924	2	US-09-489-039A-8842	Sequence 8842, Ap	1397	73.5	2.8	642	2	US-09-423-439-26	Sequence 26, Appl
1325	74	2.8	1039	2	US-09-328-352-5474	Sequence 5474, Ap	1398	73.5	2.8	643	2	US-09-423-439-16	Sequence 16, Appl
1326	74	2.8	1044	2	US-10-101-464A-956	Sequence 956, App	1399	73.5	2.8	661	2	US-10-104-047-2389	Sequence 2389, Ap
1327	74	2.8	1084	1	US-08-717-515-6	Sequence 6, Appli	1400	73.5	2.8	664	2	US-09-248-796A-17191	Sequence 17191, A
1328	74	2.8	1088	1	US-08-742-026-2	Sequence 2, Appli	1401	73.5	2.8	666	2	US-09-423-439-51	Sequence 51, Appl
1329	74	2.8	1092	2	US-09-252-991A-28476	Sequence 28476, A	1402	73.5	2.8	673	2	US-09-423-439-32	Sequence 32, Appl
1330	74	2.8	1098	2	US-10-104-047-2475	Sequence 2475, Ap	1403	73.5	2.8	689	1	US-07-766-351-5	Sequence 5, Appli
1331	74	2.8	1118	2	US-09-538-092-423	Sequence 423, App	1404	73.5	2.8	689	1	US-08-059-032-5	Sequence 5, Appli
1332	74	2.8	1170	1	US-08-476-062A-42	Sequence 42, Appl	1405	73.5	2.8	689	4	PCT-US91-07290-5	Sequence 5, Appli
1333	74	2.8	1170	4	PCT-US96-01314-42	Sequence 42, Appl	1406	73.5	2.8	726	2	US-09-328-352-8115	Sequence 8115, Ap
1334	74	2.8	1211	2	US-09-949-002-401	Sequence 401, App	1407	73.5	2.8	742	1	US-07-921-807B-2	Sequence 2, Appli
1335	74	2.8	1227	2	US-09-688-188B-105	Sequence 105, App	1408	73.5	2.8	742	1	US-08-441-944A-2	Sequence 2, Appli
1336	74	2.8	1227	2	US-09-291-417D-105	Sequence 105, App	1409	73.5	2.8	765	2	US-08-444-818-70	Sequence 70, Appl
1337	74	2.8	1247	2	US-09-134-000C-4968	Sequence 4968, Ap	1410	73.5	2.8	772	2	US-09-543-681A-8047	Sequence 8047, Ap
1338	74	2.8	1276	1	US-08-717-515-8	Sequence 8, Appli	1411	73.5	2.8	797	2	US-09-191-468-120	Sequence 120, App
1339	74	2.8	1407	2	US-09-328-352-7885	Sequence 7885, Ap	1412	73.5	2.8	874	1	US-08-247-904B-8	Sequence 8, Appli
1340	74	2.8	1747	2	US-09-902-540-14765	Sequence 14765, A	1413	73.5	2.8	874	2	US-08-767-942A-21	Sequence 21, Appl
1341	74	2.8	1783	2	US-09-362-336A-2	Sequence 2, Appli	1414	73.5	2.8	877	1	US-08-673-789-2	Sequence 2, Appli



1415

73.5

2.8

887

1

US-08-215-709-1

Sequence 1, Appli

1416

73.5

2.8

892

2

US-09-489-039A-12282

Sequence 12282, A

1417

73.5

2.8

921

2

US-09-206-800-9

Sequence 9, Appli

1418

73.5

2.8

936

2

US-09-248-796A-14843

Sequence 14843, A

1419

73.5

2.8

947

2

US-09-252-991A-21335

Sequence 21335, A

1420

73.5

2.8

953

2

US-09-751-389-7

Sequence 7, Appli

1421

73.5

2.8

967

1

US-08-449-645A-30

Sequence 30, Appl

1422

73.5

2.8

967

1

US-08-702-367A-30

Sequence 30, Appl

1423

73.5

2.8

975

2

US-09-751-389-8

Sequence 8, Appli

1424

73.5

2.8

991

1

US-08-449-645A-13

Sequence 13, Appl

1425

73.5

2.8

991

1

US-08-702-367A-13

Sequence 13, Appl

1426

73.5

2.8

991

4

PCT-US95-04681-13

Sequence 13, Appl

1427

73.5

2.8

998

2

US-09-198-452A-841

Sequence 841, App

1428

73.5

2.8

998

2

US-09-438-185A-793

Sequence 793, App

1429

73.5

2.8

1026

2

US-10-104-047-2509

Sequence 2509, Ap

1430

73.5

2.8

1140

2

US-09-220-081-2

Sequence 2, Appli

1431

73.5

2.8

1140

2

US-09-677-575-2

Sequence 2, Appli

1432

73.5

2.8

1140

2

US-10-045-072-2

Sequence 2, Appli

1433

73.5

2.8

1164

1

US-08-589-756-1

Sequence 1, Appli

1434

73.5

2.8

1164

2

US-09-206-800-1

Sequence 1, Appli

1435

73.5

2.8

1164

2

US-09-206-898-1

Sequence 1, Appli

1436

73.5

2.8

1164

2

US-09-870-122A-1

Sequence 1, Appli

1437

73.5

2.8

1302

2

US-09-902-540-14853

Sequence 14853, A

1438

73.5

2.8

1884

2

US-09-538-092-1329

Sequence 1329, Ap

1439

73.5

2.8

2089

1

US-08-418-893D-23

Sequence 23, Appl

1440

73.5

2.8

2089

1

US-08-418-893D-24

Sequence 24, Appl

1441

73.5

2.8

2214

2

US-09-902-540-15988

Sequence 15988, A

1442

73.5

2.8

2629

1

US-08-751-189-4

Sequence 4, Appli

1443

73.5

2.8

2629

1

US-09-060-836-4

Sequence 4, Appli

1444

73.5

2.8

2629

2

US-09-184-445-4

Sequence 4, Appli

1445

73.5

2.8

2680

2

US-09-489-039A-7973

Sequence 7973, Ap

1446

73

2.8

239

2

US-09-902-540-13167

Sequence 13167, A

1447

73

2.8

249

2

US-09-710-279-2294

Sequence 2294, Ap

1448

73

2.8

269

2

US-09-710-279-1538

Sequence 1538, Ap

1449

73

2.8

307

2

US-09-252-991A-32304

Sequence 32304, A

1450

73

2.8

336

1

US-08-784-651-2

Sequence 2, Appli

1451

73

2.8

336

2

US-09-007-288E-122

Sequence 122, App

1452

73

2.8

351

2

US-09-134-001C-4876

Sequence 4876, Ap

1453

73

2.8

358

2

US-09-252-991A-28728

Sequence 28728, A

1454

73

2.8

366

2

US-09-934-899-6

Sequence 6, Appli

1455

73

2.8

366

2

US-09-934-868-26

Sequence 26, Appl

1456

73

2.8

366

2

US-10-701-200-26

Sequence 26, Appl

1457

73

2.8

367

2

US-08-845-258-20

Sequence 20, Appl

1458

73

2.8

367

2

US-08-990-571-20

Sequence 20, Appl

1459

73

2.8

367

2

US-08-723-142A-20

Sequence 20, Appl

1460

73

2.8

367

2

US-09-528-784A-20

Sequence 20, Appl

1461

73

2.8

367

2

US-09-569-098A-20

Sequence 20, Appl

1462

73

2.8

379

2

US-09-902-540-12816

Sequence 12816, A

1463

73

2.8

393

2

US-09-489-039A-8198

Sequence 8198, Ap

1464

73

2.8

416

2

US-09-328-352-4470

Sequence 4470, Ap

1465

73

2.8

421

1

US-08-807-263-4

Sequence 4, Appli

1466

73

2.8

427

2

US-09-489-039A-11442

Sequence 11442, A

1467

73

2.8

437

2

US-09-252-991A-26701

Sequence 26701, A

1468

73

2.8

437

2

US-09-103-287-2

Sequence 2, Appli

1469

73

2.8

461

2

US-09-107-433-4028

Sequence 4028, Ap

1470

73

2.8

474

2

US-08-889-841B-36

Sequence 36, Appl

1471

73

2.8

474

2

US-08-889-841B-39

Sequence 39, Appl

1472

73

2.8

474

2

US-09-419-362-36

Sequence 36, Appl

1473

73

2.8

474

2

US-09-419-362-39

Sequence 39, Appl

1474

73

2.8

494

2

US-09-540-236-3832

Sequence 3832, Ap

1475

73

2.8

497

2

US-08-898-977-2

Sequence 2, Appli

1476

73

2.8

497

2

US-09-355-171-2

Sequence 2, Appli

1477

73

2.8

500

2

US-09-354-123-6

Sequence 6, Appli

1478

73

2.8

500

2

US-10-214-269-19

Sequence 19, Appl

1479

73

2.8

503

2

US-08-911-853-7

Sequence 7, Appli

1480

73

2.8

503

2

US-09-479-409-7

Sequence 7, Appli

1481

73

2.8

503

2

US-09-479-453-7

Sequence 7, Appli

1482

73

2.8

542

1

US-08-412-431-3

Sequence 3, Appli

1483

73

2.8

542

1

US-08-623-679-3

Sequence 3, Appli

1484

73

2.8

542

2

US-08-933-774-3

Sequence 3, Appli

1485

73

2.8

542

2

US-09-181-030-3

Sequence 3, Appli

1486

73

2.8

542

2

US-09-534-242-3

Sequence 3, Appli

1487

73

2.8

542

2

US-09-454-854-3

Sequence 3, Appli

1488

73

2.8

542

2

US-09-164-671-3

Sequence 3, Appli

1489

73

2.8

542

2

US-09-182-113-3

Sequence 3, Appli

1490

73

2.8

546

2

US-08-862-442-3

Sequence 3, Appli

1491

73

2.8

546

2

US-09-252-991A-31673

Sequence 31673, A

1492

73

2.8

554

1

US-08-440-377A-5

Sequence 5, Appli

1493

73

2.8

554

1

US-08-687-852-5

Sequence 5, Appli

1494

73

2.8

555

2

US-09-489-039A-9902

Sequence 9902, Ap

1495

73

2.8

572

2

US-09-401-476-4

Sequence 4, Appli

1496

73

2.8

572

2

US-09-656-640A-4

Sequence 4, Appli

1497

73

2.8

573

2

US-09-328-352-6016

Sequence 6016, Ap

1498

73

2.8

625

2

US-09-252-991A-26336

Sequence 26336, A

1499

73

2.8

733

2

US-09-489-039A-12568

Sequence 12568, A

1500

73

2.8

750

2

US-09-583-110-4010

Sequence 4010, Ap

RESULT 1

US-09-270-767-45937

Sequence 45937, Application US/09270767

Patent No. 6703491

GENERAL INFORMATION:

APPLICANT: Homburger et al.

TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster

FILE REFERENCE: File Reference: 7326-094

CURRENT APPLICATION NUMBER: US/09/270,767

CURRENT FILING DATE: 1999-03-17

NUMBER OF SEQ ID NOS: 62517

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 45937

LENGTH: 429

TYPE: PRT

ORGANISM: Drosophila melanogaster

US-09-270-767-45937

Query Match

44.8%;

Score 1174.5;

DB 2;

Length 429;

Best Local Similarity

52.3%;

Pred. No. 2.1e-106;

Matches 223;

Conservative 75;

Mismatches 127;

Indels 1;

Gaps 1;

Qy

82

ADTLQRLGARVASVDMGPQQLPDGQSLPIPPVILAEILGSDPTKGTVCYFYLHLDVQPADRG

141

Db

4

ADRLRSLGAETELADVGGQTLPNGQIIPLPKVLGLTGKDPKSKTTLVYGHLDVQPALKE

63

Qy

142

DGWLTDPPYVLTEVDGKLYGRGATDNKGPVLAWINAVSAFRALEQDLPNVNIKFIEGMEEA

201

Db

64

DGWTNPFELTEVDGKLFGRGASDDKGPVLCWIHAIEAYQKLNIALPVNVKVFEGMEES

123

Qy

202

GSVALLEELVEKEKDRFFSGVDYIVISDNLWISQRKPAITYGTRGNSYFVMEVKCRDQDFH

261

Db

124

GSEGLDLLLERKDNFLADVDFVCISDNYWLGKRPCLTYGLRGLAYFQVEVECCSKDLH

183

Qy

262

SSTFGGILHEPMADLVALLGSLVDSSGHILVPGIYDEVVPLTEEEINTYKAHLDLEEYR

321

Db

184

SGVFGGTVHEAMPDLCHLLSILVDKOTNILVPGVDRDVAPIKNEQSIYENIDFEVSEYK

243

Qy

322

NSSRVEKFLFD-TKEEILMHLWRYPYSLSIHGIEGAFDEPGTKTVIPGRVIGKFSIRLVPH

380

Db

244

KDIGVEQLPHNGDKTRLLQARWRYPYSLSVHGIEGAFYEPGAKTVIPKKVIGKFSIRLVPN

303

Qy

381

MNVSAVEKQVTRHLEDVFSKRNSSNKNVSMTLGLHPWIANIDDTQYLAACKRAIRTVFGT

440

Db

304

QDPKHIECVVKYLNDKWAERGS PNKMKTMLSAGKPWTEDPNHPHYEAAKRAIKHVFNV

363

Qy

441

EPDMIRDGSTIPIAKMFQEIYVHKSVVLIPLGAVDDGHSQNEKINRWNYIEGTKLEFAFF

500

Db

364

EPDMTREGGSIPTVTLTQBATGKNVILVPVGACDDGAHSQNEKIDINYIEGTKLLGAYL

423

Qy

501

LEMAQL

506

Db

424

HEVGKL

429





Qy 11 SLLAVLLLLLGERMFSSPPPPALLEKVFQYIDLHQDEFVQTLKEWVAIESDSVQVPRF 70  
Db 399 SLLSAVPLSSNSPINASSTLOTTLNWAAYQASASLNNEEMLNLRSLIS----- 446  
Qy 71 RQELFRMAVAADTLQRLGARVASVDMGPQQL-----PDGQSLPIP-----PVILAEIGS 120  
Db 447 ----FQTVSQSKDTTNTLSLRRCAIYL--QQFLKFGATNSQLFPLPDGGNPVVFAYFOG 500  
Qy 121 D-----PTKGTVCFCYGHLDVQPADRGDGLWLTDPYVLTVEVDGKLYGRGATDNKGPVLA 172  
Db 501 NGKVSQVGAKKRILWYGHYDVISSGNTFNWNTDPTTLTCENGKLYLGRGVSNDKGPVLS 560  
Qy 173 WINAVSAFRALEQDLPVNIKFIIIEGMBEAGSVALSELVEKEKDRFFSGVDYIVISDNLWI 232  
Db 561 AIHSV-AYLFQQGELVNDVVFLVEGSEIGSASLKQVCEKYHDIIGKDIDWILLSNSTWV 619  
Qy 233 SQRKPAITYTRGNSYFMVEVKCRDQDFHSGTGGILHEPMADLVALLGSLVDSSGHILV 292  
Db 620 DQEHPCNLNYGLRGVINAQIKVWSDKPDGHSGLNGGVYDEPMVNLVKIVSKLQNEQNEIMI 679  
Qy 293 PGIYDEVVPLTEEEINTYKAHLDLEEYRNSSRVEKFLFDTKKEILMHLWRYPSLSIHGI 352  
Db 680 PNFYSPKDLTEEYQRFQKI-----TELANIDE-----NTTVQDLITNTWKPSLSMTTV 729  
Qy 353 EGAFDEPGTKVIPGRVIGKFSIRLVPHMNVSAVEKQVTRHLEDVFSKRNSSNMVVMST 412  
Db 730 K--FSGPGNITVIPKSVTMGISIRLVPEQSVEQVKRDLKAYLEESFKQLKSNHLEIKVL 787  
Qy 413 LGLHPMIANIDDTQYLAAKRAIRTVFGTEPDMIRDGSTIPIAKMFQEIIVHKSVVLIPLGA 472  
Db 788 NEAEGWLGDPNTNAYQILKDEITTAWDVEPLLVREGGSISCLRMLERIFDAPAVQIPCGQ 847  
Qy 473 VDDGEHSQNEKINRWNYIEGTKLFAAFF 500  
Db 848 STDNGHLANENLRKQWSNLTEILSKVF 875

RESULT 5  
US-09-438-185A-981  
; Sequence 981, Application US/09438185A  
; Patent No. 6822071  
; GENERAL INFORMATION:  
; APPLICANT: Stephens, Richard  
; APPLICANT: Mitchell, Wayne  
; APPLICANT: Kalman, Sue  
; APPLICANT: Davis, Ronald  
; APPLICANT: The Regents of the University of California  
; TITLE OF INVENTION: Chlamydia Pneumoniae Genome Sequence  
; FILE REFERENCE: 018941-000411US  
; CURRENT APPLICATION NUMBER: US/09/438,185A  
; CURRENT FILING DATE: 2002-03-13  
; PRIOR APPLICATION NUMBER: US 60/108,279  
; PRIOR FILING DATE: 1998-11-12  
; PRIOR APPLICATION NUMBER: US 60/128,606  
; PRIOR FILING DATE: 1999-04-08  
; NUMBER OF SEQ ID NOS: 1074  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 981  
; LENGTH: 495  
; TYPE: PRT  
; ORGANISM: Chlamydia pneumoniae  
; FEATURE:  
; OTHER INFORMATION: CPn0980  
US-09-438-185A-981

Query Match 17.2%; Score 451.5; DB 2; Length 495;  
Best Local Similarity 27.0%; Pred. No. 2.6e-35;  
Matches 137; Conservative 91; Mismatches 203; Indels 77; Gaps 15;  
Qy 24 MFSSPPPPALLEKVFQYIDLHQDEFVQTLKEWVAI-----ESDSVQVPRFRQELFRMM 78  
Db 31 IFNCSGKPMNLD--KHFDINSANFLEEFKAFISFPSISADSDHLQDCENCAHFL---- 84

Qy 79 AVAADTLQRLGARVASVDMGPQQLPDGQSLPIPPVILAEIGS-DPTKGTVCFCYGHLDVQP 137  
Db 85 ---VDHVNKI-----FDVELWETPGH-----PPIIYASYKSDPLSPTLMLYNHYDVQP 130  
Qy 138 ADRGDGLWLTDPYVLTVEVDGKLYGRGATDNKGPVLAWINAVSAFRALEQDLPVNIKFIIIEG 197  
Db 131 AQLSDGWKGDPPFILREENGNLYARGASDNKQCFCYTLKALQHYYESQGNFPLNIILWIEG 190  
Qy 198 MEEAGSVALSELVEKEKDRFFSGVDYIVISDNLWISQRKPAITYTRGNSYFMVEVKCRD 257  
Db 191 EERESGLALFTWLEKKKEAL--RADYLLIVDGGFLSEKHPYVSIARGIVSMKISLEEGN 248  
Qy 258 QDFHSGTGGILHEPMADLVALLGSLVDSSGHILVPGIYDEV-VPLTEEEINTYKAHLD 316  
Db 249 KDMHSGVLGGIAYNTNRALSEILSSLHHPDNSIAIEGFYDOLALPSDSDRPDLPKSDTLR 308  
Qy 317 LEEYRNSSRVEKF--LFDTKEEILMHLWRYPSLSIHGIEGAFDEPGTKTVIPGRVIGKFS 374  
Db 309 ECEENLGRFPQGYEASYSPEESALR-----PTVEINGISGGYTGPGFKTVIPYRATAYLS 363  
Qy 375 IRLVPHMNVSAVEKQVTRHLED-----VFSK-----RNSSNMVVMSTLGLHPW 418  
Db 364 CRLVPNQDPDKAAHQVIHLKQQVPSLKFSEYIELPGSGRGWRSSANLPIVKVLQEIYSD 423  
Qy 419 IANIDDTQYLAAKRAIRTVFGTEPDMIRDGSTIPIAKMFQEIIVHKSVVLIPLGAVDDGEH 478  
Db 424 LYN-----EECLRLVM-----PATIPIGPLLGEAAQTSPICGTSYLSDDIH 465  
Qy 479 SONEKINRWNYIEGTKLFAAFFLEMAQL 506  
Db 466 AAEHFMSMDQLKKG-----FLSICQL 486

RESULT 6  
US-09-583-110-4829  
; Sequence 4829, Application US/09583110  
; Patent No. 6699703  
; GENERAL INFORMATION:  
; APPLICANT: Lynn Doucette-Stamm et al.  
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus  
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics  
; FILE REFERENCE: PATH00-07A  
; CURRENT APPLICATION NUMBER: US/09/583,110  
; CURRENT FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 09/107,433  
; PRIOR FILING DATE: 1998-06-30  
; PRIOR APPLICATION NUMBER: US 60/085,131  
; PRIOR FILING DATE: 1998-05-12  
; PRIOR APPLICATION NUMBER: US 60/051,553  
; PRIOR FILING DATE: 1997-07-02  
; NUMBER OF SEQ ID NOS: 5322  
; SEQ ID NO 4829  
; LENGTH: 457  
; TYPE: PRT  
; ORGANISM: Streptococcus pneumoniae  
US-09-583-110-4829

Query Match 16.5%; Score 432.5; DB 2; Length 457;  
Best Local Similarity 29.2%; Pred. No. 1.7e-33;  
Matches 138; Conservative 75; Mismatches 181; Indels 79; Gaps 17;  
Qy 45 HQDEFVQTL--KEWVAIESDSVQVPRFRQELFRMMAVAADTLQRLGARVASVDMGPQQL 102  
Db 21 HYFEVLRTLISKSVFAQQVGLKEVANYLGEIFK-----RVGAEV-EID----- 63  
Qy 103 PDGQSLPIPPVILAEIGSDPTKGTVCFCYGHLDVQPADRGDGLWLTDPYVLTVEVDGKLYGRG 162  
Db 64 ---ESYTAPFVMAHFKSSRPDAKTLIFYNHYDTPADGDQVWTEDPFTLSVRNGFMYGRG 120  
Qy 163 ATDNKGPVLAWINAVSAFRALEQDLPVNIKFIIIEGMBEAGSVALSELVEKEKDRFFSGVD 222  
Db 121 VDDDKGHITARLSALRKYMQHDDLPVNIISFIMEGAESASTDLDKYLEKHADK-LHGAD 179

QY 223 YIVISDNLWISQRKPA-----ITYGTRGNSYFMVEVKCRDQDFHSGTFFGGILHEPMADLV 277  
Db 180 LLV-----WEQGTKNALEQLEISGNGKGI VTFDAKVK SADVDIHS-SYGGVVESAPWYLL 233  
QY 278 ALIGSLVDSSGHILVPGIYDEVVPLTEEEINTYKAIHLDLEEY--RNSSRVEKF----LF 331  
Db 234 QALQSLRAADGRILVEGLYEEVHEPNEREMAL-----LETYQRNPEEVSRIYGLELP 286  
QY 332 DTKEEILMHLWRY---PSLSIHGIEGAFDEPGTKVIPGRVIGKFSIRLVPHMNVSAVEK 388  
Db 287 LLOERMAFLKRFFEPALNIEGQSGYQGQVKTILPAEASAKLEVRLVPGLEPHDVLE 346  
QY 389 QVTRHLEDVFSKRNSNKMVVSMTLG-----LHPWIANIDDTQ---YLAAKRAIRTV 437  
Db 347 KIRKQLD-----KNGFDKVELYTYTLGEMSYRSDMSAPAILNVIELAKKFYPPQGVSVLPPT 401  
QY 438 FGTEP-DMIRDGSTIPIAKMFQEI VHKSVVLIPLGAVDDGGEHSQNEKINRWNY 489  
Db 402 AGTGMHTVFDALVP-----MVAFLGNANSRDHGGDENVRIADY 442  
RESULT 7  
US-09-198-452A-1054                   Query Match                   16.3%;   Score 428;   DB 2;   Length 393;  
; Sequence 1054, Application US/09198452A   Best Local Similarity   29.9%;   Pred. No. 3.6e-33;  
; Patent No. 6559294                   Matches 114;   Conservative   73;   Mismatches 158;   Indels   36;   Gaps   10;  
; GENERAL INFORMATION:  
; APPLICANT: Griffais, R.  
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments  
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention  
; TITLE OF INVENTION: and treatment of infection  
; FILE REFERENCE: 9710-003-999  
; CURRENT APPLICATION NUMBER: US/09/198,452A  
; CURRENT FILING DATE: 1998-11-24  
; NUMBER OF SEQ ID NOS: 6849  
; SEQ ID NO 1054  
; LENGTH: 393  
; TYPE: PRT  
; ORGANISM: Chlamydia pneumoniae  
US-09-198-452A-1054

Query Match                   16.3%;   Score 428;   DB 2;   Length 393;  
Best Local Similarity   29.9%;   Pred. No. 3.6e-33;  
Matches 114;   Conservative   73;   Mismatches 158;   Indels   36;   Gaps   10;  
QY 24 MFSSPPPPALLEKFQYIDLHQDEFVQTLKEWVAI-----ESDSVQVPVPRFRQELFRMM 78  
Db 29 IFNCSGKPMNLDS--KHFDINSANFLEEFKAFISFPSSISADSDHLQDCENCAHFL---- 82  
QY 79 AVAADTLQRLGARVASVDMGPQQLPDGQSLPIPPVILAE LGS-DPTKGTVC FYGHLDVQP 137  
Db 83 ---VDHVNKI-----FDVELWETPGH-----PPIIYASYKSEDP LSLTMLNHYDVQP 128  
QY 138 ADRGDGWLTDPPYVLTEVDGKLYGRGATDNKGPVLAWINAVSAFRALEQDLPVNIKFIIEG 197  
Db 129 AOLSDGWKGPPIFREENG NLYARGASDNKGQCFYTLKALQHYVESQGNFPLNIWLIEG 188  
QY 198 MEEAGSVALEELVEKEKDRFFSGVDYIVISDNLWISQRKPAITYGTRGNSYFMVEVKCRD 257  
Db 189 EEESGSLAFTWLEKKKEAL--RADYLLIVDGGFLSEKHPYVSIGARGIVSMKISLEEGN 246  
QY 258 QDFHSGTFFGGILHEPMADLVALLGSLVDSSGHILVPGIYDEV-VPLTEEEINTYKAIHLD 316  
Db 247 KDMHSGVLGGIAYNTNRALSEILSSLHHPDNSIAIEGFYDDLLALPSDSDRDLPKSDTLR 306  
QY 317 LEEYRNSRVEKF--LFDTKEEILMHLWRYP SLSIHGIEGAFDEPGTKTVIPGRVIGKFS 374  
Db 307 ECEENLGRFPQGYEASYSPEESALR-----PTVEINGISGYTGPGFKTVIPYRATAYLS 361  
QY 375 IRLVPHMNVSAVEKQVTRHLE 395  
Db 362 CRLVPNQDPDKAAHQVVIHLK 382

RESULT 8  
US-09-902-540-15643                   Query Match                   15.4%;   Score 403;   DB 2;   Length 466;  
; Sequence 15643, Application US/09902540   Best Local Similarity   27.5%;   Pred. No. 1.4e-30;  
; Patent No. 6833447                   Matches 134;   Conservative   85;   Mismatches 219;   Indels   50;   Gaps   13;  
; GENERAL INFORMATION:  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Wiegand, Roger C.  
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
; FILE REFERENCE: 38-10(15849)B  
; CURRENT APPLICATION NUMBER: US/09/902,540  
; CURRENT FILING DATE: 2001-07-10  
; PRIOR APPLICATION NUMBER: 60/217,883  
; PRIOR FILING DATE: 2000-07-10  
; NUMBER OF SEQ ID NOS: 16825  
; SEQ ID NO 15643  
; LENGTH: 466  
; TYPE: PRT  
; ORGANISM: Myxococcus xanthus  
US-09-902-540-15643

QY 36 EKVFQYIDLHQDEFVQTLKEWVAIESDSVQVPVPRFRQELFRMMAVAADTLQRLGARVASV 95  
Db 4 DNALSHFESKKQTYLEDLKSLVRIPSVS---FPGFDATQVRRSAEATARLLK----- 52  
QY 96 DMGPQQLPDGQSLPIP---PVILAE LGS DPTKGTVC FYGHLDVQPADRGDGLWLTDPYVLT 152  
Db 53 DRGFENV---QLEIEGTHPYVYGEVLKAPGKPTLLLYAHHDVQPA GDEAAWKSPFPEPV 109  
QY 153 EVDGKLYGRGATDNKGPVLAWINAVSAFRALEQDLPVNIKFIIEGMEEAGSVALEELVEK 212  
Db 110 ERDGRLYGRGSADDKAGIVVHTSAVESWLKGAGALPLNVKVIIEGEEIIGSNFLGAFLOE 169  
QY 213 EKDRFFSGVDYIVISDNLWISQRKPAITYGTRGNSYFMVEVKCRDQDFHSGTFFGGILHEP 272  
Db 170 H--AALLKADAIVLTDTSNFD TGLPSITTALRGLVTVDVEVRALRQAVHSGMWGVPVDP 227  
QY 273 MADLVALLGSLVDSSGHILVPGIYDEVVPLTEEEINTYKAIHLDLEEYRNSRV---EKF 329  
Db 228 VMALCRMLATLTHADGSIAIEGIRERVKPLTDGERQSIESLPGDEAHFRAQSGLLPGAQV 287  
QY 330 LFDTKEEILMHLWRYP SLSIHGIEGAFDEPGTKTVIPGRVIGKFSIRLVPHMNVSAVEKQ 389  
Db 288 LGGGAHPWEMN-WRQPSIAINAIQ-ASSRKDARNIICDSAWARVGIRIVPDLEARDVEQR 345  
QY 390 VTRHLEDV-----FSKRNSNKMVVSMTLGLHPWIANIDDTQVLAAKRAIRTVFGTE 441  
Db 346 LKEHLRKVCPWGLEVHFDT EGASGW-----WYTDPSHPAPQAAFRALEKGYGTK 394  
QY 442 PDMIRDGSTIPIAKMF-QEIVHKSVVLIPLGAVDDG---EHSQNEKINRWNYIEGTKLFA 497  
Db 395 AVAIGCGASIPFVEPF AKELGGVPALLI---GVEDPYTYAHSENE SLHLG DW EKSIRSAI 451  
QY 498 AFFLEMAQ 505  
Db 452 HLYAE LAE 459

RESULT 9  
US-09-248-796A-14559                   Query Match                   15.4%;   Score 403;   DB 2;   Length 466;  
; Sequence 14559, Application US/09248796A   Best Local Similarity   27.5%;   Pred. No. 1.4e-30;  
; Patent No. 6747137                   Matches 134;   Conservative   85;   Mismatches 219;   Indels   50;   Gaps   13;  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICA  
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A









```

; PRIOR APPLICATION NUMBER: DE 19933003.4
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933005.0
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933006.9
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19941378.9
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941379.7
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941390.8
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941391.6
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19942088.2
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 442
; SEQ ID NO 192
; LENGTH: 267
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-602-777A-192

Query Match      9.2%; Score 242.5; DB 2; Length 267;
Best Local Similarity 29.7%; Pred. No. 3.2e-15;
Matches 79; Conservative 37; Mismatches 113; Indels 37; Gaps 7;

QY 42 IDLHQDEFVQTLKEWVAIESDSVQVPRFRQBLFRMMAVAADTLQRLGARVASVDMGPQQ 101
Db 14 IENQREQIFTQLKEIVSP--NSVHSDPNLLEDYAGAKEWKETLTNAGLTVSE----- 64

QY 102 LPDGQSLPIPPVILAEGLSDPTKGT-----VCFYGHLDVQPADRGDWLTDPYVLT 152
Db 65 -----FAEDGTTNFIGTRKSGEAPKVLLYSHFDVVPSPGLDLWDTNPFELT 112

QY 153 EVDG---KLYGEGATDNKGPVLAWINAVSAFRALEQDLPVNIKFIEGMEEAAGSVALEE 208
Db 113 ERDAGHGTRWYGRGAADCKGNLVMHLAALRAVEA-SGDTTLNLTYYVEGSEEMGGGALSA 171

QY 209 LVEKEKDRFFSGVDYIVISDNLWISQRKPAITYGTRGNSYFMVEVKCRDQDFHSGTFFGGI 268
Db 172 LI-KDKPELFD-ADVILIADSGNASVGTPTLTTLRGGGQVTVTDTLEGAVHSGQNGGA 229

QY 269 LHEPMADLVALLGSLVDSSGHILVPG 294
Db 230 APDAVAALVRVLDLRLDEHGRTVIDG 255
```

```

RESULT 15
US-09-602-777A-194
; Sequence 194, Application US/09602777A
; Patent No. 6831165
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
; TITLE OF INVENTION: INVOLVED IN HOMEOSTASIS AND ADAPTATION
; FILE REFERENCE: BGI-128CP
; CURRENT APPLICATION NUMBER: US/09/602,777A
; CURRENT FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: US 60/141031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: DE 19931636.8
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19932125.6
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932126.4
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932127.2
; PRIOR FILING DATE: 1999-07-09
```

```

; PRIOR APPLICATION NUMBER: DE 19932128.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932129.9
; PRIOR FILING DATE: 1999-07-19
; PRIOR APPLICATION NUMBER: DE 19932226.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932920.6
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932922.2
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932924.9
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932928.1
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932930.3
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932933.8
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932935.4
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932973.7
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933002.6
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933003.4
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933005.0
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19933006.9
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19941378.9
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941379.7
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941390.8
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19941391.6
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: DE 19942088.2
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 442
; SEQ ID NO 194
; LENGTH: 231
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-602-777A-194

Query Match      8.9%; Score 233; DB 2; Length 231;
Best Local Similarity 34.9%; Pred. No. 2.1e-14;
Matches 67; Conservative 27; Mismatches 82; Indels 16; Gaps 5;

QY 116 AELGSDPTKGT-----VCFYGHLDVQPADRGDWLTDPYVLTTEVDG----KLYGRG 162
Db 31 AEDGTTNFIGTRKSGEAPKVLLYSHFDVVPSPGLDLWDTNPFELTERDAGHGTRWYGRG 90

QY 163 ATDNKGPVLAWINAVSAFRALEQDLPVNIKFIEGMEEAAGSVALEELVEKEKDRFFSGVD 222
Db 91 AADCKGNLVMHLAALRAVEA-SGDTTLNLTYYVEGSEEMGGGALSALI-KDKPELFD-AD 147

QY 223 YIVISDNLWISQRKPAITYGTRGNSYFMVEVKCRDQDFHSGTFFGGILHPEMADLVALLGS 282
Db 148 VILIADSGNASVGTPTLTTLTTLRGGGQVTVTDTLEGAVHSGQNGGAAPDAVAALVRVLD 207

QY 283 LVDSSGHILVPG 294
Db 208 LRDEHGRTVIDG 219
```

Search completed: March 16, 2006, 17:26:04  
Job time : 45 secs







112	136	5.2	190	3	US-09-815-242-5877	Sequence 5877, Ap	185	110	4.2	784	5	US-10-741-600-1189	Sequence 1189, Ap
113	134	5.1	391	4	US-10-369-493-11006	Sequence 11006, A	186	110	4.2	1104	5	US-10-741-600-1183	Sequence 1183, Ap
114	132	5.0	473	4	US-10-275-107-69	Sequence 69, Appl	187	110	4.2	1279	5	US-10-741-600-1191	Sequence 1191, Ap
115	132	5.0	473	5	US-10-433-757-4	Sequence 4, Appli	188	110	4.2	1845	5	US-10-741-600-1193	Sequence 1193, Ap
116	130	5.0	400	6	US-11-097-143-25302	Sequence 25302, A	189	110	4.2	1845	5	US-10-741-600-1196	Sequence 1196, Ap
117	130	5.0	443	5	US-10-472-928-4512	Sequence 4512, Ap	190	110	4.2	1914	5	US-10-741-600-1185	Sequence 1185, Ap
118	126	4.8	256	4	US-10-437-963-158066	Sequence 158066,	191	110	4.2	1914	5	US-10-756-149-5420	Sequence 5420, Ap
119	126	4.8	449	3	US-09-815-242-5375	Sequence 5375, Ap	192	109.5	4.2	486	4	US-10-767-701-46096	Sequence 46096, A
120	125.5	4.8	359	6	US-11-097-143-14688	Sequence 14688, A	193	109	4.2	279	5	US-10-501-282-1616	Sequence 1616, Ap
121	125.5	4.8	430	4	US-10-724-972A-4600	Sequence 4600, Ap	194	109	4.2	414	5	US-10-501-282-5366	Sequence 5366, Ap
122	125.5	4.8	432	4	US-10-365-742-52	Sequence 52, Appl	195	108.5	4.1	95	3	US-09-867-550-42	Sequence 42, Appl
123	125	4.8	373	4	US-10-109-860-2	Sequence 2, Appli	196	108.5	4.1	1162	4	US-10-633-423-10	Sequence 10, Appl
124	125	4.8	373	6	US-11-134-474-2	Sequence 2, Appli	197	108.5	4.1	1162	4	US-10-427-741-10	Sequence 10, Appl
125	124.5	4.7	401	6	US-11-097-143-14709	Sequence 14709, A	198	108	4.1	1188	4	US-10-425-115-333475	Sequence 333475,
126	124.5	4.7	446	4	US-10-424-599-239368	Sequence 239368,	199	106.5	4.1	321	4	US-10-282-122A-60897	Sequence 60897, A
127	123	4.7	273	4	US-10-425-115-290485	Sequence 290485,	200	106.5	4.1	553	5	US-10-898-142-4	Sequence 4, Appli
128	122.5	4.7	440	4	US-10-156-761-9438	Sequence 9438, Ap	201	105.5	4.0	403	3	US-09-815-242-10282	Sequence 10282, A
129	122	4.7	2291	6	US-11-097-143-12420	Sequence 12420, A	202	105.5	4.0	583	5	US-10-450-763-39393	Sequence 39393, A
130	120	4.6	441	4	US-10-156-761-14162	Sequence 14162, A	203	105.5	4.0	1430	5	US-10-450-763-39391	Sequence 39391, A
131	119.5	4.6	361	4	US-10-094-749-2952	Sequence 2952, Ap	204	105	4.0	1950	5	US-10-840-512-154	Sequence 154, App
132	119.5	4.6	361	4	US-10-295-027-201	Sequence 201, App	205	104.5	4.0	851	5	US-10-741-849-7099	Sequence 7099, Ap
133	118.5	4.5	1433	4	US-10-671-403-184	Sequence 184, App	206	104.5	4.0	1372	5	US-10-450-763-44913	Sequence 44913, A
134	118.5	4.5	1433	4	US-10-671-419-184	Sequence 184, App	207	104.5	4.0	1378	5	US-10-450-763-54037	Sequence 54037, A
135	118.5	4.5	1433	4	US-10-670-844-184	Sequence 184, App	208	104.5	4.0	1379	5	US-10-450-763-40616	Sequence 40616, A
136	118.5	4.5	1433	4	US-10-671-134-184	Sequence 184, App	209	104.5	4.0	1400	5	US-10-450-763-39510	Sequence 39510, A
137	118.5	4.5	1433	4	US-10-673-098-184	Sequence 184, App	210	104.5	4.0	1788	5	US-10-450-763-37108	Sequence 37108, A
138	118.5	4.5	1433	4	US-10-672-638-184	Sequence 184, App	211	104.5	4.0	2048	4	US-10-408-765A-1102	Sequence 1102, Ap
139	118.5	4.5	1433	4	US-10-673-127-184	Sequence 184, App	212	104.5	4.0	2563	5	US-10-450-763-45126	Sequence 45126, A
140	118.5	4.5	1433	4	US-10-670-817-184	Sequence 184, App	213	104	4.0	340	6	US-11-097-143-14721	Sequence 14721, A
141	118.5	4.5	1433	4	US-10-673-119-184	Sequence 184, App	214	104	4.0	366	4	US-10-425-115-328817	Sequence 328817,
142	118.5	4.5	1433	4	US-10-671-207-184	Sequence 184, App	215	104	4.0	1155	4	US-10-282-122A-47116	Sequence 47116, A
143	118.5	4.5	1433	5	US-10-673-120-184	Sequence 184, App	216	103.5	3.9	260	3	US-09-957-806A-16	Sequence 16, Appl
144	118.5	4.5	1433	5	US-10-671-412-184	Sequence 184, App	217	103.5	3.9	578	5	US-10-469-204-162	Sequence 162, App
145	118.5	4.5	1433	5	US-10-671-859-184	Sequence 184, App	218	103.5	3.9	932	4	US-10-282-122A-52510	Sequence 52510, A
146	118.5	4.5	1433	5	US-10-671-106-184	Sequence 184, App	219	103.5	3.9	1435	4	US-10-282-287-8	Sequence 8, Appli
147	117	4.5	1846	5	US-10-741-600-1194	Sequence 1194, Ap	220	103.5	3.9	1436	3	US-09-815-242-5566	Sequence 5566, Ap
148	116	4.4	329	4	US-10-282-122A-58022	Sequence 58022, A	221	103.5	3.9	1438	4	US-10-282-122A-43797	Sequence 43797, A
149	115	4.4	461	4	US-10-425-114-42127	Sequence 42127, A	222	103.5	3.9	1438	5	US-10-857-625-641	Sequence 641, App
150	115	4.4	463	4	US-10-425-114-62643	Sequence 62643, A	223	103.5	3.9	1442	3	US-09-815-242-12321	Sequence 12321, A
151	115	4.4	514	4	US-10-425-115-235840	Sequence 235840,	224	103	3.9	330	4	US-10-282-122A-56974	Sequence 56974, A
152	114.5	4.4	636	4	US-10-282-122A-69766	Sequence 69766, A	225	103	3.9	470	4	US-10-425-115-355541	Sequence 355541,
153	113.5	4.3	409	5	US-10-645-723-5	Sequence 5, Appli	226	102.5	3.9	864	4	US-10-437-963-153309	Sequence 153309,
154	113.5	4.3	409	5	US-10-645-723-6	Sequence 6, Appli	227	102.5	3.9	887	4	US-10-369-493-19640	Sequence 19640, A
155	113	4.3	410	4	US-10-674-666-5	Sequence 5, Appli	228	102.5	3.9	1118	4	US-10-410-681-36	Sequence 36, Appl
156	113	4.3	410	4	US-10-674-666-6	Sequence 6, Appli	229	102	3.9	1738	4	US-10-210-130-100	Sequence 100, App
157	113	4.3	410	5	US-10-757-843-1	Sequence 1, Appli	230	101.5	3.9	169	4	US-10-767-701-40542	Sequence 40542, A
158	113	4.3	441	3	US-09-738-626-6613	Sequence 6613, Ap	231	101.5	3.9	1058	4	US-10-437-963-129864	Sequence 129864,
159	112	4.3	409	5	US-10-645-723-7	Sequence 7, Appli	232	101	3.9	656	4	US-10-132-134-30	Sequence 30, Appl
160	112	4.3	409	5	US-10-645-723-8	Sequence 8, Appli	233	101	3.9	1403	4	US-10-437-963-137174	Sequence 137174,
161	112	4.3	409	5	US-10-645-723-9	Sequence 9, Appli	234	101	3.9	2116	5	US-10-732-923-20537	Sequence 20537, A
162	112	4.3	409	5	US-10-645-723-10	Sequence 10, Appl	235	100.5	3.8	399	4	US-10-282-122A-61271	Sequence 61271, A
163	112	4.3	410	4	US-10-343-175-10	Sequence 10, Appl	236	100.5	3.8	548	4	US-10-767-701-44071	Sequence 44071, A
164	112	4.3	410	5	US-10-757-843-2	Sequence 2, Appli	237	100.5	3.8	623	3	US-10-474-776-352	Sequence 352, App
165	112	4.3	467	4	US-10-425-114-47811	Sequence 47811, A	238	100.5	3.8	623	5	US-10-472-928-3180	Sequence 3180, Ap
166	111.5	4.3	616	3	US-09-925-302-663	Sequence 663, App	239	100.5	3.8	648	4	US-10-369-493-20334	Sequence 20334, A
167	111.5	4.3	616	3	US-09-925-302-663	Sequence 663, App	240	100.5	3.8	656	4	US-10-369-493-1268	Sequence 1268, Ap
168	111.5	4.3	770	4	US-10-264-237-1991	Sequence 1991, Ap	241	100.5	3.8	731	5	US-10-732-923-23166	Sequence 23166, A
169	111.5	4.3	1163	4	US-10-267-502-431	Sequence 431, App	242	100.5	3.8	826	3	US-09-756-247-41	Sequence 41, Appl
170	111.5	4.3	1798	4	US-10-176-847-96	Sequence 96, Appl	243	100.5	3.8	826	4	US-10-312-309-41	Sequence 41, Appl
171	111.5	4.3	1811	5	US-10-450-763-39390	Sequence 39390, A	244	100.5	3.8	1473	4	US-10-037-417-112	Sequence 112, App
172	111.5	4.3	2057	5	US-10-719-993-830	Sequence 830, App	245	100	3.8	809	4	US-10-437-963-149905	Sequence 149905,
173	111.5	4.3	2061	4	US-10-087-192-486	Sequence 486, App	246	100	3.8	1769	5	US-10-719-993-831	Sequence 831, App
174	111.5	4.3	2061	4	US-10-060-036-181	Sequence 181, App	247	99.5	3.8	100	4	US-10-425-115-247969	Sequence 247969,
175	111	4.2	1231	4	US-10-369-493-3503	Sequence 3503, Ap	248	99.5	3.8	437	5	US-10-732-923-18655	Sequence 18655, A
176	110.5	4.2	401	6	US-11-097-143-13974	Sequence 13974, A	249	99.5	3.8	653	4	US-10-369-493-21645	Sequence 21645, A
177	110.5	4.2	439	4	US-10-425-115-267724	Sequence 267724,	250	99.5	3.8	807	5	US-10-450-763-45311	Sequence 45311, A
178	110.5	4.2	1478	4	US-10-240-154-10	Sequence 10, Appl	251	99	3.8	1031	4	US-10-410-681-40	Sequence 40, Appl
179	110	4.2	409	4	US-10-674-666-7	Sequence 7, Appli	252	99	3.8	1275	4	US-10-452-024-167	Sequence 167, App
180	110	4.2	409	4	US-10-674-666-8	Sequence 8, Appli	253	99	3.8	1276	4	US-10-354-774-66	Sequence 66, Appl
181	110	4.2	409	4	US-10-674-666-9	Sequence 9, Appli	254	99	3.8	1276	4	US-10-271-012-66	Sequence 66, Appl
182	110	4.2	409	4	US-10-674-666-10	Sequence 10, Appl	255	99	3.8	1276	4	US-10-452-024-4	Sequence 4, Appli
183	110	4.2	441	4	US-10-437-963-143921	Sequence 143921,	256	99	3.8	1276	4	US-10-452-024-164	Sequence 164, App
184	110	4.2	650	4	US-10-282-122A-76703	Sequence 76703, A	257	99	3.8	1276	4	US-10-452-024-168	Sequence 168, App



258	99	3.8	1276	4	US-10-205-516-8	Sequence 8, Appli	331	95	3.6	409	5	US-10-645-723-3	Sequence 3, Appli
259	99	3.8	1276	4	US-10-729-122-66	Sequence 66, Appl	332	95	3.6	409	5	US-10-645-723-4	Sequence 4, Appli
260	99	3.8	1276	4	US-10-729-039-66	Sequence 66, Appl	333	95	3.6	409	5	US-10-757-843-3	Sequence 3, Appli
261	99	3.8	1276	5	US-10-729-527-66	Sequence 66, Appl	334	95	3.6	506	4	US-10-381-530-13	Sequence 13, Appl
262	99	3.8	1276	5	US-10-727-898-66	Sequence 66, Appl	335	95	3.6	628	4	US-10-424-599-249418	Sequence 249418,
263	99	3.8	1276	5	US-10-728-696-66	Sequence 66, Appl	336	95	3.6	867	4	US-10-282-122A-60200	Sequence 60200, A
264	99	3.8	1276	6	US-11-001-241-66	Sequence 66, Appl	337	95	3.6	876	4	US-10-282-122A-70369	Sequence 70369, A
265	99	3.8	1286	4	US-10-205-516-22	Sequence 22, Appl	338	95	3.6	876	5	US-10-857-625-697	Sequence 697, App
266	99	3.8	1704	4	US-10-369-978-2	Sequence 2, Appli	339	95	3.6	1376	4	US-10-238-075-560	Sequence 560, App
267	98.5	3.8	573	5	US-10-501-282-5274	Sequence 5274, Ap	340	95	3.6	1416	4	US-10-282-122A-76450	Sequence 76450, A
268	98.5	3.8	580	5	US-10-501-282-5276	Sequence 5276, Ap	341	95	3.6	2110	5	US-10-732-923-20533	Sequence 20533, A
269	98.5	3.8	603	5	US-10-501-282-5278	Sequence 5278, Ap	342	94.5	3.6	172	4	US-10-724-972A-5607	Sequence 5607, Ap
270	98.5	3.8	609	5	US-10-501-282-5280	Sequence 5280, Ap	343	94.5	3.6	348	4	US-10-425-115-267723	Sequence 267723,
271	98.5	3.8	697	4	US-10-425-115-255466	Sequence 255466,	344	94.5	3.6	371	4	US-10-335-977-6819	Sequence 6819, Ap
272	98.5	3.8	829	4	US-10-369-493-4177	Sequence 4177, Ap	345	94.5	3.6	402	3	US-09-815-242-11599	Sequence 11599, A
273	98	3.7	475	4	US-10-156-761-10877	Sequence 10877, A	346	94.5	3.6	402	4	US-10-335-977-6820	Sequence 6820, Ap
274	98	3.7	1037	4	US-10-437-963-150522	Sequence 150522,	347	94.5	3.6	474	4	US-10-424-599-254116	Sequence 254116,
275	97.5	3.7	402	4	US-10-282-122A-58973	Sequence 58973, A	348	94.5	3.6	590	5	US-10-934-998-98	Sequence 98, Appl
276	97.5	3.7	499	4	US-10-159-257A-189	Sequence 189, App	349	94.5	3.6	662	4	US-10-369-493-22747	Sequence 22747, A
277	97.5	3.7	560	4	US-10-415-302-6	Sequence 6, Appli	350	94.5	3.6	787	3	US-09-712-363-178	Sequence 178, App
278	97.5	3.7	581	4	US-10-282-122A-55993	Sequence 55993, A	351	94.5	3.6	787	4	US-10-282-122A-64434	Sequence 64434, A
279	97.5	3.7	674	4	US-10-352-843-11	Sequence 11, Appl	352	94.5	3.6	983	6	US-11-097-143-37182	Sequence 37182, A
280	97	3.7	371	4	US-10-408-765A-1330	Sequence 1330, Ap	353	94.5	3.6	1169	4	US-10-282-122A-71049	Sequence 71049, A
281	97	3.7	730	4	US-10-437-963-164068	Sequence 164068,	354	94.5	3.6	1253	4	US-10-282-122A-52275	Sequence 52275, A
282	97	3.7	773	5	US-10-732-923-23195	Sequence 23195, A	355	94.5	3.6	1346	4	US-10-437-963-157483	Sequence 157483,
283	97	3.7	4746	4	US-10-369-493-433	Sequence 433, App	356	94	3.6	639	4	US-10-032-585-7531	Sequence 7531, Ap
284	96.5	3.7	421	4	US-10-282-122A-51099	Sequence 51099, A	357	94	3.6	817	4	US-10-282-122A-71072	Sequence 71072, A
285	96.5	3.7	560	4	US-10-415-302-2	Sequence 2, Appli	358	94	3.6	817	5	US-10-732-923-6984	Sequence 6984, Ap
286	96.5	3.7	560	4	US-10-415-302-4	Sequence 4, Appli	359	94	3.6	823	4	US-10-724-972A-5267	Sequence 5267, Ap
287	96.5	3.7	560	4	US-10-415-302-16	Sequence 16, Appl	360	94	3.6	901	4	US-10-282-122A-76591	Sequence 76591, A
288	96.5	3.7	1622	4	US-10-080-170-154	Sequence 154, App	361	94	3.6	1028	5	US-10-732-923-13674	Sequence 13674, A
289	96.5	3.7	1622	4	US-10-282-122A-63833	Sequence 63833, A	362	94	3.6	1053	5	US-10-732-923-13673	Sequence 13673, A
290	96.5	3.7	1622	4	US-10-080-170-154	Sequence 154, App	363	94	3.6	1546	4	US-10-369-493-543	Sequence 543, App
291	96.5	3.7	1622	4	US-10-468-356-154	Sequence 154, App	364	93.5	3.6	535	4	US-10-724-972A-3956	Sequence 3956, Ap
292	96.5	3.7	4551	3	US-09-793-708-1	Sequence 1, Appli	365	93.5	3.6	595	4	US-10-413-943-27	Sequence 27, Appl
293	96.5	3.7	4551	4	US-10-201-365-2	Sequence 2, Appli	366	93.5	3.6	639	3	US-09-854-731-17	Sequence 17, Appl
294	96.5	3.7	4551	4	US-10-160-539-1	Sequence 1, Appli	367	93.5	3.6	640	4	US-10-425-115-340679	Sequence 340679,
295	96.5	3.7	4551	5	US-10-468-828-1	Sequence 1, Appli	368	93.5	3.6	655	5	US-10-828-924-80	Sequence 80, Appl
296	96.5	3.7	4551	5	US-10-846-335-1	Sequence 1, Appli	369	93.5	3.6	763	4	US-10-425-115-335778	Sequence 335778,
297	96.5	3.7	4613	3	US-09-861-289-31	Sequence 31, Appl	370	93.5	3.6	771	4	US-10-188-186-100	Sequence 100, App
298	96.5	3.7	4613	3	US-09-860-846-31	Sequence 31, Appl	371	93.5	3.6	1459	4	US-10-282-122A-48361	Sequence 48361, A
299	96.5	3.7	4613	3	US-09-988-384B-31	Sequence 31, Appl	372	93.5	3.6	1487	4	US-10-282-122A-77288	Sequence 77288, A
300	96.5	3.7	4613	3	US-09-836-821-31	Sequence 31, Appl	373	93.5	3.6	1613	4	US-10-282-122A-77288	Sequence 43673, A
301	96.5	3.7	4613	4	US-10-271-889-31	Sequence 31, Appl	374	93.5	3.6	1669	5	US-10-450-763-43673	Sequence 2, Appli
302	96.5	3.7	11877	3	US-09-861-289-6	Sequence 6, Appli	375	93.5	3.6	1719	4	US-10-288-798-2	Sequence 2, Appli
303	96.5	3.7	11877	3	US-09-860-846-6	Sequence 6, Appli	376	93.5	3.6	1719	4	US-10-362-892-2	Sequence 2, Appli
304	96.5	3.7	11877	3	US-09-836-821-6	Sequence 6, Appli	377	93.5	3.6	1732	5	US-10-679-366-2	Sequence 2, Appli
305	96.5	3.7	11877	4	US-10-271-889-49	Sequence 49, Appl	378	93.5	3.6	1732	5	US-10-514-201-2	Sequence 2, Appli
306	96.5	3.7	12199	3	US-09-988-384B-6	Sequence 6, Appli	379	93.5	3.6	1770	4	US-10-433-794-19	Sequence 19, Appl
307	96	3.7	485	4	US-10-369-493-17171	Sequence 17171, A	380	93	3.5	255	5	US-10-959-539-47	Sequence 47, Appl
308	96	3.7	584	5	US-10-450-763-35297	Sequence 35297, A	381	93	3.5	255	5	US-10-732-923-1544	Sequence 1544, Ap
309	96	3.7	584	5	US-10-450-763-43053	Sequence 43053, A	382	93	3.5	487	4	US-10-156-761-11764	Sequence 11764, A
310	96	3.7	800	4	US-10-425-115-359162	Sequence 359162,	383	93	3.5	588	4	US-10-282-122A-67147	Sequence 67147, A
311	96	3.7	896	3	US-09-923-563A-1	Sequence 1, Appli	384	93	3.5	646	4	US-10-282-122A-53387	Sequence 53387, A
312	96	3.7	1209	4	US-10-425-115-270046	Sequence 270046,	385	93	3.5	686	3	US-09-815-242-10843	Sequence 10843, A
313	96	3.7	1448	4	US-10-032-585-7452	Sequence 7452, Ap	386	93	3.5	694	4	US-10-282-122A-56848	Sequence 56848, A
314	96	3.7	1699	5	US-10-842-313-8	Sequence 8, Appli	387	93	3.5	811	4	US-10-282-122A-48795	Sequence 48795, A
315	96	3.7	1707	4	US-10-167-631A-2	Sequence 2, Appli	388	93	3.5	848	3	US-09-925-301-1161	Sequence 1161, Ap
316	96	3.7	1707	4	US-10-467-685-10	Sequence 10, Appl	389	93	3.5	900	4	US-10-334-143-16	Sequence 16, Appl
317	96	3.7	1709	5	US-10-842-313-2	Sequence 2, Appli	390	93	3.5	1053	4	US-10-310-671-12	Sequence 12, Appl
318	96	3.7	1711	5	US-10-842-313-10	Sequence 10, Appl	391	93	3.5	1310	6	US-11-059-218-10	Sequence 10, Appl
319	96	3.7	1721	5	US-10-842-313-4	Sequence 4, Appli	392	93	3.5	1544	4	US-10-210-152-7	Sequence 7, Appli
320	96	3.7	1721	5	US-10-842-313-6	Sequence 6, Appli	393	93	3.5	1544	4	US-10-405-793-7	Sequence 7, Appli
321	96	3.7	1734	5	US-10-842-313-12	Sequence 12, Appl	394	93	3.5	1544	5	US-10-842-313-19	Sequence 19, Appl
322	95.5	3.6	497	4	US-10-424-599-201339	Sequence 201339,	395	93	3.5	1554	4	US-10-210-152-2	Sequence 2, Appli
323	95.5	3.6	506	4	US-10-308-448-32	Sequence 32, Appl	396	93	3.5	1554	4	US-10-405-793-2	Sequence 2, Appli
324	95.5	3.6	508	4	US-10-369-493-8410	Sequence 8410, Ap	397	93	3.5	1554	5	US-10-842-313-15	Sequence 15, Appl
325	95	3.6	409	4	US-10-674-666-1	Sequence 1, Appli	398	93	3.5	1556	4	US-10-210-152-9	Sequence 9, Appli
326	95	3.6	409	4	US-10-674-666-2	Sequence 2, Appli	399	93	3.5	1556	4	US-10-405-793-9	Sequence 9, Appli
327	95	3.6	409	4	US-10-674-666-3	Sequence 3, Appli	400	93	3.5	1556	5	US-10-842-313-20	Sequence 20, Appl
328	95	3.6	409	4	US-10-674-666-4	Sequence 4, Appli	401	93	3.5	1566	4	US-10-210-152-4	Sequence 4, Appli
329	95	3.6	409	5	US-10-645-723-1	Sequence 1, Appli	402	93	3.5	1566	4	US-10-210-152-6	Sequence 6, Appli
330	95	3.6	409	5	US-10-645-723-2	Sequence 2, Appli	403	93	3.5	1566	4	US-10-405-793-4	Sequence 4, Appli

404	93	3.5	1566	4	US-10-405-793-6	Sequence 6, Appli	477	91	3.5	1274	3	US-09-746-491-12	Sequence 12, Appli
405	93	3.5	1566	5	US-10-842-313-17	Sequence 17, Appl	478	91	3.5	1286	5	US-10-450-763-55445	Sequence 55445, A
406	93	3.5	1566	5	US-10-842-313-18	Sequence 18, Appl	479	91	3.5	1286	5	US-10-450-763-55988	Sequence 55988, A
407	93	3.5	1579	4	US-10-210-152-10	Sequence 10, Appl	480	91	3.5	1286	5	US-10-450-763-56353	Sequence 56353, A
408	93	3.5	1579	4	US-10-405-793-10	Sequence 10, Appl	481	91	3.5	1701	3	US-09-963-959-2	Sequence 2, Appli
409	93	3.5	1579	5	US-10-842-313-21	Sequence 21, Appl	482	91	3.5	1701	4	US-10-193-452-62	Sequence 62, Appl
410	93	3.5	1617	4	US-10-282-122A-61673	Sequence 61673, A	483	91	3.5	1707	5	US-10-450-763-37759	Sequence 37759, A
411	93	3.5	2773	4	US-10-369-493-9876	Sequence 9876, Ap	484	90.5	3.5	224	4	US-10-282-122A-46449	Sequence 46449, A
412	92.5	3.5	310	3	US-09-764-868-909	Sequence 909, App	485	90.5	3.5	361	4	US-10-437-963-132545	Sequence 132545,
413	92.5	3.5	370	3	US-09-880-505-194	Sequence 194, App	486	90.5	3.5	431	4	US-10-425-114-39656	Sequence 39656, A
414	92.5	3.5	370	4	US-10-051-643-194	Sequence 194, App	487	90.5	3.5	434	4	US-10-425-114-46610	Sequence 46610, A
415	92.5	3.5	370	4	US-10-205-979-44	Sequence 44, Appl	488	90.5	3.5	444	4	US-10-156-761-10914	Sequence 10914, A
416	92.5	3.5	391	3	US-09-738-626-4788	Sequence 4788, Ap	489	90.5	3.5	479	4	US-10-425-114-64785	Sequence 64785, A
417	92.5	3.5	520	5	US-10-732-923-19522	Sequence 19522, A	490	90.5	3.5	500	3	US-09-815-242-13764	Sequence 13764, A
418	92.5	3.5	632	4	US-10-437-963-173585	Sequence 173585,	491	90.5	3.5	500	4	US-10-282-122A-75641	Sequence 75641, A
419	92.5	3.5	632	5	US-10-481-032A-80	Sequence 80, Appl	492	90.5	3.5	500	4	US-10-437-963-152830	Sequence 152830,
420	92.5	3.5	633	5	US-10-617-320-4091	Sequence 4091, Ap	493	90.5	3.5	641	4	US-10-389-566-682	Sequence 682, App
421	92.5	3.5	698	4	US-10-102-554-2	Sequence 2, Appli	494	90.5	3.5	882	4	US-10-437-963-180470	Sequence 180470,
422	92.5	3.5	698	5	US-10-809-075-2	Sequence 2, Appli	495	90.5	3.5	895	4	US-10-425-115-301103	Sequence 301103,
423	92.5	3.5	745	5	US-10-809-075-4	Sequence 4, Appli	496	90.5	3.5	1167	3	US-09-870-122-2	Sequence 2, Appli
424	92.5	3.5	987	5	US-10-450-763-31953	Sequence 31953, A	497	90.5	3.5	1167	3	US-09-870-122-2	Sequence 2, Appli
425	92.5	3.5	1303	5	US-10-450-763-42589	Sequence 42589, A	498	90.5	3.5	1167	4	US-10-412-026-2	Sequence 2, Appli
426	92.5	3.5	1501	3	US-09-801-368-346	Sequence 346, App	499	90.5	3.5	1167	5	US-10-915-705-2	Sequence 2, Appli
427	92.5	3.5	1501	4	US-10-369-493-1606	Sequence 1606, Ap	500	90.5	3.5	1435	4	US-10-437-963-128458	Sequence 128458,
428	92.5	3.5	2106	4	US-10-408-765A-2093	Sequence 2093, Ap	501	90.5	3.5	1496	5	US-10-732-923-8337	Sequence 8337, Ap
429	92	3.5	246	5	US-10-181-585B-109	Sequence 109, App	502	90.5	3.5	1513	4	US-10-282-122A-64858	Sequence 45, Appl
430	92	3.5	511	3	US-09-833-245-2010	Sequence 210, Ap	503	90.5	3.5	5099	5	US-10-937-379-45	Sequence 64873, A
431	92	3.5	588	3	US-09-815-242-11005	Sequence 11005, A	504	90	3.4	405	4	US-10-425-114-64873	Sequence 2, Appli
432	92	3.5	588	4	US-10-282-122A-58135	Sequence 58135, A	505	90	3.4	495	4	US-10-305-765-2	Sequence 2, Appli
433	92	3.5	671	4	US-10-108-210-2	Sequence 2, Appli	506	90	3.4	495	4	US-10-305-765-4	Sequence 4, Appli
434	92	3.5	785	4	US-10-424-599-246482	Sequence 246482,	507	90	3.4	495	4	US-10-305-633-2	Sequence 2, Appli
435	92	3.5	818	5	US-10-732-923-7010	Sequence 7010, Ap	508	90	3.4	495	4	US-10-305-633-4	Sequence 4, Appli
436	92	3.5	879	4	US-10-282-122A-71610	Sequence 71610, A	509	90	3.4	496	4	US-10-153-244-98	Sequence 98, Appl
437	92	3.5	1059	4	US-10-217-700-5	Sequence 5, Appli	510	90	3.4	621	4	US-10-282-122A-60850	Sequence 60850, A
438	92	3.5	1160	4	US-10-369-493-15779	Sequence 15779, A	511	90	3.4	672	4	US-10-369-493-9059	Sequence 9059, Ap
439	92	3.5	1160	4	US-10-369-493-16162	Sequence 16162, A	512	90	3.4	799	4	US-10-032-585-7409	Sequence 7409, Ap
440	92	3.5	1167	4	US-10-369-493-15411	Sequence 15411, A	513	90	3.4	818	4	US-10-156-761-9960	Sequence 9960, Ap
441	92	3.5	1168	5	US-10-200-545-74	Sequence 74, Appl	514	90	3.4	1313	6	US-11-059-218-9	Sequence 9, Appli
442	91.5	3.5	310	4	US-10-288-930-122	Sequence 122, App	515	90	3.4	1799	4	US-10-467-163-11	Sequence 11, Appl
443	91.5	3.5	381	3	US-09-738-626-4850	Sequence 4850, Ap	516	90	3.4	1939	4	US-10-153-244-6	Sequence 6, Appli
444	91.5	3.5	411	4	US-10-032-585-7284	Sequence 7284, Ap	517	90	3.4	1970	4	US-10-153-244-4	Sequence 4, Appli
445	91.5	3.5	496	4	US-10-282-122A-55553	Sequence 55553, A	518	90	3.4	1974	4	US-10-153-244-8	Sequence 8, Appli
446	91.5	3.5	504	4	US-10-369-493-16452	Sequence 16452, A	519	90	3.4	2000	4	US-10-467-163-12	Sequence 12, Appl
447	91.5	3.5	514	4	US-10-369-493-9003	Sequence 9003, Ap	520	90	3.4	2017	4	US-10-153-244-2	Sequence 2, Appli
448	91.5	3.5	553	3	US-09-738-626-3655	Sequence 3655, Ap	521	90	3.4	2482	4	US-10-437-963-114732	Sequence 114732,
449	91.5	3.5	553	5	US-10-494-672-280	Sequence 280, App	522	90	3.4	4725	5	US-10-450-763-54196	Sequence 54196, A
450	91.5	3.5	655	4	US-10-156-761-14498	Sequence 14498, A	523	90	3.4	4977	5	US-10-450-763-47416	Sequence 47416, A
451	91.5	3.5	679	4	US-10-097-111-285	Sequence 285, App	524	90	3.4	7201	6	US-11-097-143-40200	Sequence 40200, A
452	91.5	3.5	839	3	US-09-925-300-1442	Sequence 1442, Ap	525	89.5	3.4	351	5	US-10-450-763-55840	Sequence 55840, A
453	91.5	3.5	959	4	US-10-282-122A-77752	Sequence 77752, A	526	89.5	3.4	416	4	US-10-282-122A-50650	Sequence 50650, A
454	91.5	3.5	1654	5	US-10-741-600-1192	Sequence 1192, Ap	527	89.5	3.4	460	4	US-10-282-122A-76574	Sequence 76574, A
455	91.5	3.5	1732	5	US-10-514-206-5	Sequence 5, Appli	528	89.5	3.4	478	4	US-10-369-493-1246	Sequence 1246, Ap
456	91.5	3.5	1732	5	US-10-514-201-3	Sequence 3, Appli	529	89.5	3.4	478	4	US-10-369-493-20313	Sequence 20313, A
457	91.5	3.5	2294	4	US-10-408-765A-713	Sequence 713, App	530	89.5	3.4	520	5	US-10-732-923-19521	Sequence 19521, A
458	91.5	3.5	3418	4	US-10-392-113-42	Sequence 42, Appl	531	89.5	3.4	586	4	US-10-425-115-315239	Sequence 315239,
459	91.5	3.5	3418	4	US-10-634-574-1	Sequence 1, Appli	532	89.5	3.4	673	4	US-10-437-963-177390	Sequence 177390,
460	91.5	3.5	3418	4	US-10-408-765A-178	Sequence 178, App	533	89.5	3.4	706	4	US-10-282-122A-46524	Sequence 46524, A
461	91.5	3.5	3423	5	US-10-450-763-53776	Sequence 53776, A	534	89.5	3.4	715	4	US-10-282-122A-64170	Sequence 64170, A
462	91.5	3.5	3423	6	US-11-097-143-2568	Sequence 2568, Ap	535	89.5	3.4	715	5	US-10-732-923-6806	Sequence 6806, Ap
463	91	3.5	4820	5	US-10-181-585B-105	Sequence 105, App	536	89.5	3.4	735	4	US-10-262-666-66	Sequence 66, Appl
464	91	3.5	246	5	US-10-369-493-20150	Sequence 20150, A	537	89.5	3.4	841	5	US-10-755-415-198	Sequence 198, App
465	91	3.5	289	4	US-10-282-122A-56045	Sequence 56045, A	538	89.5	3.4	982	4	US-10-282-122A-65306	Sequence 65306, A
466	91	3.5	315	4	US-10-097-143-36240	Sequence 36240, A	539	89.5	3.4	1070	4	US-10-032-585-7389	Sequence 7389, Ap
467	91	3.5	478	6	US-11-097-143-36240	Sequence 36240, A	540	89.5	3.4	1179	4	US-10-282-122A-60643	Sequence 60643, A
468	91	3.5	505	4	US-10-282-122A-46304	Sequence 46304, A	541	89.5	3.4	1181	3	US-09-870-122-23	Sequence 23, Appl
469	91	3.5	687	5	US-10-739-930-5801	Sequence 5801, Ap	542	89.5	3.4	1181	3	US-09-870-122-23	Sequence 23, Appl
470	91	3.5	737	6	US-11-059-218-6	Sequence 6, Appli	543	89.5	3.4	1181	3	US-10-412-026-23	Sequence 23, Appl
471	91	3.5	871	4	US-10-282-122A-51598	Sequence 51598, A	544	89.5	3.4	1439	4	US-10-282-122A-62761	Sequence 62761, A
472	91	3.5	1038	5	US-10-450-763-35267	Sequence 35267, A	545	89.5	3.4	1724	4	US-10-163-587A-17	Sequence 17, Appl
473	91	3.5	1038	5	US-10-450-763-55412	Sequence 55412, A	546	89	3.4	237	4	US-10-264-049-2885	Sequence 2885, Ap
474	91	3.5	1054	4	US-10-104-047-2938	Sequence 2938, Ap	547	89	3.4	409	4	US-10-282-122A-69334	Sequence 69334, A
475	91	3.5	1071	4	US-10-369-493-6459	Sequence 6459, Ap	548	89	3.4	453	5	US-10-501-282-1022	Sequence 1022, Ap
476	91	3.5	1077	4	US-10-310-671-13	Sequence 13, Appl	549	89	3.4	467	5	US-10-501-282-1024	Sequence 1024, Ap
			1098	4	US-10-408-765A-1953	Sequence 1953, Ap							



550	89	3.4	550	4	US-10-437-963-159192	Sequence 159192,	623	88	3.4	508	5	US-10-921-168-19	Sequence 19, Appl
551	89	3.4	702	4	US-10-282-122A-52565	Sequence 52565, A	624	88	3.4	563	5	US-10-788-197-23	Sequence 23, Appl
552	89	3.4	732	6	US-11-059-218-5	Sequence 5, Appli	625	88	3.4	563	5	US-10-754-473-23	Sequence 23, Appl
553	89	3.4	790	5	US-10-500-530-18	Sequence 18, Appl	626	88	3.4	575	4	US-10-425-115-243609	Sequence 243609,
554	89	3.4	851	4	US-10-425-115-257862	Sequence 257862,	627	88	3.4	589	4	US-10-424-599-245422	Sequence 245422,
555	89	3.4	914	4	US-10-282-122A-53745	Sequence 53745, A	628	88	3.4	616	4	US-10-104-047-2331	Sequence 2331, Ap
556	89	3.4	989	3	US-09-815-242-4897	Sequence 4897, Ap	629	88	3.4	641	4	US-10-437-963-146951	Sequence 146951,
557	89	3.4	1053	4	US-10-425-115-196524	Sequence 196524,	630	88	3.4	682	5	US-10-741-600-1267	Sequence 1267, Ap
558	89	3.4	1120	4	US-10-282-122A-70903	Sequence 70903, A	631	88	3.4	682	5	US-10-741-600-1268	Sequence 1268, Ap
559	89	3.4	1312	6	US-11-059-218-8	Sequence 8, Appli	632	88	3.4	687	5	US-10-450-763-55514	Sequence 55514, A
560	89	3.4	1384	4	US-10-424-599-192608	Sequence 192608,	633	88	3.4	687	5	US-10-450-763-55560	Sequence 55560, A
561	89	3.4	1725	4	US-10-467-434-11	Sequence 11, Appl	634	88	3.4	721	4	US-10-282-122A-60774	Sequence 60774, A
562	88.5	3.4	245	5	US-10-181-585B-116	Sequence 116, App	635	88	3.4	741	4	US-10-260-046-28	Sequence 28, Appl
563	88.5	3.4	250	4	US-10-437-963-127750	Sequence 127750,	636	88	3.4	779	4	US-10-408-765A-82	Sequence 82, Appl
564	88.5	3.4	283	4	US-10-185-591-2	Sequence 2, Appli	637	88	3.4	780	5	US-10-719-993-717	Sequence 717, App
565	88.5	3.4	296	4	US-10-425-114-52269	Sequence 52269, A	638	88	3.4	780	5	US-10-719-993-718	Sequence 718, App
566	88.5	3.4	396	4	US-10-282-122A-60394	Sequence 60394, A	639	88	3.4	780	5	US-10-719-993-720	Sequence 720, App
567	88.5	3.4	439	4	US-10-425-114-69117	Sequence 69117, A	640	88	3.4	780	5	US-10-719-993-721	Sequence 721, App
568	88.5	3.4	470	4	US-10-425-115-327487	Sequence 327487,	641	88	3.4	780	6	US-11-019-855-61	Sequence 61, Appl
569	88.5	3.4	476	5	US-10-732-923-11627	Sequence 11627, A	642	88	3.4	1121	6	US-11-097-143-16326	Sequence 16326, A
570	88.5	3.4	478	4	US-10-425-114-44927	Sequence 44927, A	643	88	3.4	1241	4	US-10-282-122A-51957	Sequence 51957, A
571	88.5	3.4	478	4	US-10-425-114-51948	Sequence 51948, A	644	88	3.4	1510	4	US-10-437-963-138376	Sequence 138376,
572	88.5	3.4	478	4	US-10-425-114-53490	Sequence 53490, A	645	88	3.4	2036	4	US-10-437-963-170373	Sequence 170373,
573	88.5	3.4	482	4	US-10-369-493-1068	Sequence 1068, Ap	646	87.5	3.3	160	5	US-10-857-625-607	Sequence 607, App
574	88.5	3.4	486	4	US-10-425-115-304125	Sequence 304125,	647	87.5	3.3	245	5	US-10-181-585B-112	Sequence 112, App
575	88.5	3.4	486	5	US-10-739-930-7351	Sequence 7351, Ap	648	87.5	3.3	246	4	US-10-282-122A-46293	Sequence 46293, A
576	88.5	3.4	488	4	US-10-425-114-65182	Sequence 65182, A	649	87.5	3.3	330	4	US-10-282-122A-72464	Sequence 72464, A
577	88.5	3.4	500	4	US-10-369-493-1510	Sequence 1510, Ap	650	87.5	3.3	362	4	US-10-032-585-7223	Sequence 7223, Ap
578	88.5	3.4	554	4	US-10-320-797-3270	Sequence 3270, Ap	651	87.5	3.3	425	4	US-10-041-018-172	Sequence 172, App
579	88.5	3.4	563	4	US-10-054-683-33	Sequence 33, Appl	652	87.5	3.3	425	4	US-10-041-018-271	Sequence 271, App
580	88.5	3.4	563	4	US-10-262-666-10	Sequence 10, Appl	653	87.5	3.3	491	5	US-10-994-726-66	Sequence 66, Appl
581	88.5	3.4	563	4	US-10-408-765A-2157	Sequence 2157, Ap	654	87.5	3.3	494	4	US-10-282-122A-43396	Sequence 43396, A
582	88.5	3.4	563	5	US-10-473-603-33	Sequence 33, Appl	655	87.5	3.3	522	4	US-10-425-115-247693	Sequence 247693,
583	88.5	3.4	563	5	US-10-511-362-2	Sequence 2, Appli	656	87.5	3.3	523	4	US-10-437-963-110870	Sequence 110870,
584	88.5	3.4	617	5	US-10-739-930-6169	Sequence 6169, Ap	657	87.5	3.3	587	4	US-10-659-000-5	Sequence 5, Appli
585	88.5	3.4	623	3	US-09-815-242-13499	Sequence 13499, A	658	87.5	3.3	587	4	US-10-659-000-6	Sequence 6, Appli
586	88.5	3.4	623	4	US-10-282-122A-74085	Sequence 74085, A	659	87.5	3.3	732	4	US-10-789-241-4	Sequence 4, Appli
587	88.5	3.4	673	4	US-10-425-115-310279	Sequence 310279,	660	87.5	3.3	732	6	US-11-059-218-4	Sequence 4, Appli
588	88.5	3.4	711	4	US-10-437-963-158926	Sequence 158926,	661	87.5	3.3	737	5	US-10-511-362-6	Sequence 6, Appli
589	88.5	3.4	735	5	US-10-511-362-8	Sequence 8, Appli	662	87.5	3.3	764	4	US-10-369-493-9693	Sequence 9693, Ap
590	88.5	3.4	744	4	US-10-262-666-64	Sequence 64, Appl	663	87.5	3.3	786	4	US-10-282-122A-57799	Sequence 57799, A
591	88.5	3.4	873	4	US-10-369-493-21005	Sequence 21005, A	664	87.5	3.3	788	3	US-09-815-242-10562	Sequence 10562, A
592	88.5	3.4	900	5	US-10-732-923-7200	Sequence 7200, Ap	665	87.5	3.3	792	5	US-10-732-923-23182	Sequence 23182, A
593	88.5	3.4	1104	5	US-10-732-923-13965	Sequence 13965, A	666	87.5	3.3	935	5	US-10-732-923-19249	Sequence 19249, A
594	88.5	3.4	1164	5	US-10-915-705-1	Sequence 1, Appli	667	87.5	3.3	1016	4	US-10-188-186-104	Sequence 104, App
595	88.5	3.4	1266	4	US-10-282-122A-53903	Sequence 53903, A	668	87.5	3.3	1052	3	US-09-757-100B-2	Sequence 2, Appli
596	88.5	3.4	1654	4	US-10-437-963-189218	Sequence 189218,	669	87.5	3.3	1052	4	US-10-394-322A-25	Sequence 25, Appl
597	88.5	3.4	2039	4	US-10-437-963-155661	Sequence 155661,	670	87.5	3.3	1052	4	US-10-646-569-2	Sequence 2, Appli
598	88.5	3.4	2137	5	US-10-756-149-4806	Sequence 4806, Ap	671	87.5	3.3	1160	3	US-09-815-242-5480	Sequence 5480, Ap
599	88.5	3.4	2991	3	US-09-970-944-22	Sequence 22, Appl	672	87.5	3.3	1164	5	US-10-915-705-23	Sequence 23, Appl
600	88.5	3.4	4264	4	US-10-187-975-114	Sequence 114, App	673	87.5	3.3	1168	3	US-09-815-242-12151	Sequence 12151, A
601	88.5	3.4	4349	3	US-09-970-944-4	Sequence 4, Appli	674	87.5	3.3	1168	4	US-10-282-122A-44037	Sequence 44037, A
602	88.5	3.4	4349	3	US-09-970-944-18	Sequence 18, Appl	675	87.5	3.3	1181	5	US-10-474-792-674	Sequence 674, App
603	88.5	3.4	4349	3	US-09-970-944-19	Sequence 19, Appl	676	87.5	3.3	1234	4	US-10-282-122A-62676	Sequence 62676, A
604	88.5	3.4	4349	4	US-10-160-758-15	Sequence 15, Appl	677	87.5	3.3	1234	4	US-10-282-122A-64488	Sequence 64488, A
605	88.5	3.4	4349	4	US-10-174-677-76	Sequence 76, Appl	678	87.5	3.3	1265	3	US-09-964-899-19	Sequence 19, Appl
606	88.5	3.4	4349	4	US-10-187-975-112	Sequence 112, App	679	87.5	3.3	1265	5	US-10-975-523-19	Sequence 19, Appl
607	88.5	3.4	4349	4	US-10-408-765A-1739	Sequence 1739, Ap	680	87.5	3.3	1292	4	US-10-437-963-188422	Sequence 188422,
608	88	3.4	357	5	US-10-472-516-4	Sequence 4, Appli	681	87.5	3.3	1306	4	US-10-017-724-4	Sequence 4, Appli
609	88	3.4	357	5	US-10-600-862A-21	Sequence 21, Appl	682	87.5	3.3	1306	6	US-11-059-218-7	Sequence 7, Appli
610	88	3.4	357	5	US-10-868-577A-45	Sequence 45, Appl	683	87.5	3.3	1576	5	US-10-732-923-19033	Sequence 19033, A
611	88	3.4	357	5	US-10-868-577A-53	Sequence 53, Appl	684	87.5	3.3	1863	3	US-09-832-292-29	Sequence 29, Appl
612	88	3.4	357	5	US-10-812-849-21	Sequence 21, Appl	685	87.5	3.3	1863	3	US-09-930-512-38	Sequence 38, Appl
613	88	3.4	357	5	US-10-968-286-4	Sequence 4, Appli	686	87.5	3.3	1863	3	US-09-930-512-39	Sequence 39, Appl
614	88	3.4	357	5	US-10-631-467-613	Sequence 613, App	687	87.5	3.3	6685	5	US-10-450-763-53389	Sequence 53389, A
615	88	3.4	436	4	US-10-424-599-187961	Sequence 187961,	688	87.5	3.3	6815	6	US-11-097-143-27225	Sequence 27225, A
616	88	3.4	436	4	US-10-425-114-40641	Sequence 40641, A	689	87	3.3	254	5	US-10-739-930-8348	Sequence 8348, Ap
617	88	3.4	467	6	US-11-097-143-8664	Sequence 8664, Ap	690	87	3.3	271	4	US-10-425-115-336452	Sequence 336452,
618	88	3.4	487	4	US-10-425-114-45681	Sequence 45681, A	691	87	3.3	399	4	US-10-369-493-21547	Sequence 21547, A
619	88	3.4	505	5	US-10-994-726-65	Sequence 65, Appl	692	87	3.3	399	5	US-10-732-923-18642	Sequence 18642, A
620	88	3.4	508	3	US-09-858-664A-18	Sequence 18, Appl	693	87	3.3	459	4	US-10-425-115-235745	Sequence 235745,
621	88	3.4	508	4	US-10-274-978-19	Sequence 19, Appl	694	87	3.3	469	4	US-10-425-114-66740	Sequence 66740, A
622	88	3.4	508	4	US-10-697-263-19	Sequence 19, Appl	695	87	3.3	514	4	US-10-205-331-24	Sequence 24, Appl



696	87	3.3	545	5	US-10-450-763-31804	Sequence 31804, A	769	86	3.3	334	4	US-10-290-072-126	Sequence 126, App
697	87	3.3	558	4	US-10-425-115-236235	Sequence 236235,	770	86	3.3	393	4	US-10-369-493-22382	Sequence 22382, A
698	87	3.3	705	4	US-10-724-972A-7527	Sequence 7527, Ap	771	86	3.3	446	5	US-10-732-923-18650	Sequence 18650, A
699	87	3.3	738	4	US-10-369-493-16953	Sequence 16953, A	772	86	3.3	459	3	US-09-950-772-4	Sequence 4, Appli
700	87	3.3	754	4	US-10-425-114-64400	Sequence 64400, A	773	86	3.3	459	3	US-10-289-360-2	Sequence 2, Appli
701	87	3.3	759	4	US-10-425-115-250541	Sequence 250541,	774	86	3.3	459	5	US-10-863-245A-4	Sequence 4, Appli
702	87	3.3	876	3	US-09-815-242-12623	Sequence 12623, A	775	86	3.3	467	4	US-10-417-700A-97	Sequence 97, Appl
703	87	3.3	985	3	US-09-738-626-4377	Sequence 4377, Ap	776	86	3.3	468	4	US-10-369-493-17169	Sequence 17169, A
704	87	3.3	989	4	US-10-282-122A-42570	Sequence 42570, A	777	86	3.3	470	4	US-10-369-493-17350	Sequence 17350, A
705	87	3.3	1069	4	US-10-282-122A-71618	Sequence 71618, A	778	86	3.3	478	4	US-10-156-761-8525	Sequence 8525, Ap
706	87	3.3	1114	4	US-10-320-797-3340	Sequence 3340, Ap	779	86	3.3	480	4	US-10-425-114-47349	Sequence 47349, A
707	87	3.3	1224	4	US-10-369-493-22379	Sequence 22379, A	780	86	3.3	480	4	US-10-425-114-70221	Sequence 70221, A
708	87	3.3	1368	5	US-10-732-923-12330	Sequence 12330, A	781	86	3.3	520	4	US-10-369-493-6678	Sequence 6678, Ap
709	87	3.3	1443	3	US-09-815-242-5004	Sequence 5004, Ap	782	86	3.3	520	4	US-10-369-493-6679	Sequence 6679, Ap
710	87	3.3	1451	3	US-09-815-242-10734	Sequence 10734, A	783	86	3.3	527	4	US-10-437-963-156038	Sequence 156038,
711	87	3.3	1451	4	US-10-282-122A-42484	Sequence 42484, A	784	86	3.3	573	5	US-10-494-495-14	Sequence 14, Appl
712	87	3.3	1493	4	US-10-437-963-106983	Sequence 106983,	785	86	3.3	574	4	US-10-458-201-4	Sequence 4, Appli
713	87	3.3	1507	4	US-10-282-122A-51807	Sequence 51807, A	786	86	3.3	588	4	US-10-432-422-188	Sequence 188, App
714	87	3.3	1507	5	US-10-492-477-14	Sequence 14, Appl	787	86	3.3	618	3	US-09-934-901-18	Sequence 18, Appl
715	87	3.3	1575	4	US-10-437-963-171197	Sequence 171197,	788	86	3.3	618	3	US-09-934-868-8	Sequence 8, Appli
716	87	3.3	2438	5	US-10-745-237-172	Sequence 172, App	789	86	3.3	618	4	US-10-320-924-18	Sequence 18, Appl
717	87	3.3	2438	6	US-11-097-143-6702	Sequence 6702, Ap	790	86	3.3	618	4	US-10-320-874-18	Sequence 18, Appl
718	87	3.3	4623	6	US-11-097-143-40110	Sequence 40110, A	791	86	3.3	618	4	US-10-321-210-18	Sequence 18, Appl
719	86.5	3.3	240	4	US-10-369-493-15598	Sequence 15598, A	792	86	3.3	618	4	US-10-701-200-8	Sequence 8, Appli
720	86.5	3.3	240	4	US-10-369-493-15975	Sequence 15975, A	793	86	3.3	627	5	US-10-739-930-6264	Sequence 6264, Ap
721	86.5	3.3	323	4	US-10-282-122A-55567	Sequence 55567, A	794	86	3.3	638	4	US-10-282-122A-69844	Sequence 69844, A
722	86.5	3.3	334	4	US-10-369-493-515	Sequence 515, App	795	86	3.3	658	4	US-10-282-122A-64217	Sequence 64217, A
723	86.5	3.3	368	4	US-10-282-122A-50478	Sequence 50478, A	796	86	3.3	682	5	US-10-732-923-19318	Sequence 19318, A
724	86.5	3.3	397	4	US-10-437-963-108144	Sequence 108144,	797	86	3.3	682	5	US-10-511-627-20	Sequence 20, Appl
725	86.5	3.3	416	4	US-10-424-599-143427	Sequence 143427,	798	86	3.3	682	6	US-11-097-143-3465	Sequence 3465, Ap
726	86.5	3.3	427	4	US-10-437-963-155529	Sequence 155529,	799	86	3.3	702	3	US-09-741-669-391	Sequence 391, App
727	86.5	3.3	468	4	US-10-369-493-3365	Sequence 3365, Ap	800	86	3.3	702	4	US-10-282-122A-42756	Sequence 42756, A
728	86.5	3.3	516	3	US-09-895-840-2	Sequence 2, Appli	801	86	3.3	702	5	US-10-862-424-22	Sequence 22, Appl
729	86.5	3.3	527	5	US-10-450-763-45802	Sequence 45802, A	802	86	3.3	760	4	US-10-282-122A-51167	Sequence 51167, A
730	86.5	3.3	575	3	US-09-930-512-35	Sequence 35, Appl	803	86	3.3	765	3	US-09-989-339-2	Sequence 2, Appli
731	86.5	3.3	594	4	US-10-168-066-9	Sequence 9, Appli	804	86	3.3	795	3	US-09-921-259-6	Sequence 6, Appli
732	86.5	3.3	625	5	US-10-481-596-20	Sequence 20, Appl	805	86	3.3	795	4	US-10-425-115-315839	Sequence 315839,
733	86.5	3.3	625	6	US-11-097-143-19659	Sequence 19659, A	806	86	3.3	847	4	US-10-369-493-1359	Sequence 1359, Ap
734	86.5	3.3	635	4	US-10-282-122A-75099	Sequence 75099, A	807	86	3.3	881	4	US-10-282-122A-77424	Sequence 77424, A
735	86.5	3.3	705	4	US-10-282-122A-77556	Sequence 77556, A	808	86	3.3	1163	3	US-09-893-348-18	Sequence 18, Appl
736	86.5	3.3	718	3	US-09-881-579-14	Sequence 14, Appl	809	86	3.3	1163	5	US-10-810-653-18	Sequence 18, Appl
737	86.5	3.3	718	4	US-10-425-114-56143	Sequence 56143, A	810	86	3.3	1247	5	US-10-618-281-59	Sequence 59, Appl
738	86.5	3.3	732	4	US-10-282-122A-54856	Sequence 54856, A	811	86	3.3	1383	4	US-10-437-963-129326	Sequence 129326,
739	86.5	3.3	735	5	US-10-511-362-10	Sequence 10, Appl	812	86	3.3	1509	3	US-09-901-940-2	Sequence 2, Appli
740	86.5	3.3	781	4	US-10-425-115-189490	Sequence 189490,	813	86	3.3	3896	4	US-10-461-194-133	Sequence 133, App
741	86.5	3.3	979	4	US-10-437-963-156496	Sequence 156496,	814	85.5	3.3	287	4	US-10-425-114-60672	Sequence 60672, A
742	86.5	3.3	1160	4	US-10-437-963-191171	Sequence 191171,	815	85.5	3.3	316	5	US-10-732-923-18389	Sequence 18389, A
743	86.5	3.3	1169	4	US-10-369-493-22928	Sequence 22928, A	816	85.5	3.3	364	4	US-10-282-122A-57893	Sequence 57893, A
744	86.5	3.3	1357	4	US-10-282-122A-67813	Sequence 67813, A	817	85.5	3.3	368	4	US-10-425-115-300063	Sequence 300063,
745	86.5	3.3	1448	4	US-10-282-122A-66468	Sequence 66468, A	818	85.5	3.3	369	4	US-10-425-114-64224	Sequence 64224, A
746	86.5	3.3	1664	4	US-10-210-130-102	Sequence 102, App	819	85.5	3.3	369	4	US-10-425-114-71860	Sequence 71860, A
747	86.5	3.3	1842	5	US-10-732-923-18307	Sequence 18307, A	820	85.5	3.3	425	4	US-10-425-114-68106	Sequence 68106, A
748	86.5	3.3	1856	4	US-10-085-198-8	Sequence 8, Appli	821	85.5	3.3	439	4	US-10-424-599-281104	Sequence 281104,
749	86.5	3.3	1864	3	US-09-832-292-27	Sequence 27, Appl	822	85.5	3.3	458	4	US-10-141-531-165	Sequence 165, App
750	86.5	3.3	1864	3	US-09-930-512-6	Sequence 6, Appli	823	85.5	3.3	458	4	US-10-290-072-165	Sequence 165, App
751	86.5	3.3	1864	4	US-10-153-244-9	Sequence 9, Appli	824	85.5	3.3	594	5	US-10-450-763-47049	Sequence 47049, A
752	86.5	3.3	1864	5	US-10-343-903-23	Sequence 23, Appl	825	85.5	3.3	633	4	US-10-381-779-19	Sequence 19, Appl
753	86.5	3.3	1885	3	US-09-920-346-2	Sequence 2, Appli	826	85.5	3.3	633	4	US-10-369-493-23200	Sequence 23200, A
754	86.5	3.3	1885	4	US-10-353-690-68	Sequence 68, Appl	827	85.5	3.3	696	4	US-10-282-122A-52112	Sequence 52112, A
755	86.5	3.3	1885	4	US-10-423-543-64	Sequence 64, Appl	828	85.5	3.3	707	4	US-10-437-963-145806	Sequence 145806,
756	86.5	3.3	1885	5	US-10-753-267-24	Sequence 24, Appl	829	85.5	3.3	756	4	US-10-437-963-194126	Sequence 194126,
757	86.5	3.3	2271	5	US-10-732-923-19032	Sequence 19032, A	830	85.5	3.3	785	4	US-10-437-963-133586	Sequence 133586,
758	86	3.3	150	4	US-10-424-599-281265	Sequence 281265,	831	85.5	3.3	867	4	US-10-389-566-1946	Sequence 1946, Ap
759	86	3.3	264	4	US-10-282-122A-53397	Sequence 53397, A	832	85.5	3.3	867	4	US-10-282-122A-55162	Sequence 55162, A
760	86	3.3	285	4	US-10-425-114-72385	Sequence 72385, A	833	85.5	3.3	867	5	US-10-732-923-6906	Sequence 6906, Ap
761	86	3.3	304	4	US-10-408-765A-1913	Sequence 1913, Ap	834	85.5	3.3	1002	4	US-10-437-963-193181	Sequence 193181,
762	86	3.3	330	4	US-10-282-122A-74700	Sequence 74700, A	835	85.5	3.3	1014	4	US-09-738-626-4656	Sequence 4656, Ap
763	86	3.3	334	4	US-10-141-531-68	Sequence 68, Appl	836	85.5	3.3	1046	4	US-10-437-963-191006	Sequence 191006,
764	86	3.3	334	4	US-10-141-531-81	Sequence 81, Appl	837	85.5	3.3	1105	4	US-10-369-493-2816	Sequence 2816, Ap
765	86	3.3	334	4	US-10-141-531-126	Sequence 126, App	838	85.5	3.3	1125	5	US-10-684-129-7	Sequence 7, Appli
766	86	3.3	334	4	US-10-032-201B-218	Sequence 218, App	839	85.5	3.3	1161	3	US-09-817-762-8	Sequence 8, Appli
767	86	3.3	334	4	US-10-290-072-68	Sequence 68, Appl	840	85.5	3.3	1162	4	US-10-282-122A-67972	Sequence 67972, A
768	86	3.3	334	4	US-10-290-072-81	Sequence 81, Appl	841	85.5	3.3	1230	4	US-10-369-493-1929	Sequence 1929, Ap

842	85.5	3.3	1232	5	US-10-511-698-63	Sequence 63, Appl	915	84.5	3.2	398	5	US-10-501-282-60	Sequence 60, Appl
843	85.5	3.3	1262	4	US-10-032-585-7858	Sequence 7858, Ap	916	84.5	3.2	401	3	US-10-369-493-16938	Sequence 16938, A
844	85.5	3.3	2011	3	US-09-832-292-31	Sequence 31, Appl	917	84.5	3.2	437	3	US-09-738-626-3992	Sequence 3992, Ap
845	85.5	3.3	3317	4	US-10-080-334-200	Sequence 200, App	918	84.5	3.2	442	5	US-10-501-282-3858	Sequence 3858, Ap
846	85	3.2	334	4	US-10-141-531-153	Sequence 153, App	919	84.5	3.2	445	4	US-10-425-114-38400	Sequence 38400, A
847	85	3.2	334	4	US-10-141-531-189	Sequence 189, App	920	84.5	3.2	453	4	US-10-478-516-15	Sequence 15, Appl
848	85	3.2	334	4	US-10-290-072-153	Sequence 153, App	921	84.5	3.2	469	4	US-10-417-700A-75	Sequence 75, Appl
849	85	3.2	334	4	US-10-290-072-189	Sequence 189, App	922	84.5	3.2	517	6	US-11-097-143-663	Sequence 663, App
850	85	3.2	356	4	US-10-437-963-185223	Sequence 185223,	923	84.5	3.2	545	4	US-10-610-295-2	Sequence 2, Appli
851	85	3.2	384	4	US-10-282-122A-61295	Sequence 61295, A	924	84.5	3.2	551	4	US-10-425-115-325369	Sequence 325369,
852	85	3.2	385	4	US-10-214-473-80	Sequence 80, Appl	925	84.5	3.2	571	4	US-10-282-122A-68558	Sequence 68558, A
853	85	3.2	385	4	US-10-272-490-80	Sequence 80, Appl	926	84.5	3.2	575	4	US-10-282-122A-69500	Sequence 69500, A
854	85	3.2	405	4	US-10-282-122A-67708	Sequence 67708, A	927	84.5	3.2	621	4	US-10-425-115-363659	Sequence 363659,
855	85	3.2	421	4	US-10-428-275-344	Sequence 344, App	928	84.5	3.2	627	4	US-10-437-963-154642	Sequence 154642,
856	85	3.2	434	4	US-10-437-963-143987	Sequence 143987,	929	84.5	3.2	643	4	US-10-175-002-2	Sequence 2, Appli
857	85	3.2	485	4	US-10-282-122A-43786	Sequence 43786, A	930	84.5	3.2	739	4	US-10-282-122A-53185	Sequence 53185, A
858	85	3.2	485	5	US-10-857-625-714	Sequence 714, App	931	84.5	3.2	760	5	US-10-739-930-6376	Sequence 6376, Ap
859	85	3.2	490	4	US-10-424-599-209072	Sequence 209072,	932	84.5	3.2	821	4	US-10-437-963-182640	Sequence 182640,
860	85	3.2	495	3	US-09-815-242-5040	Sequence 5040, Ap	933	84.5	3.2	833	4	US-10-282-122A-55177	Sequence 55177, A
861	85	3.2	495	3	US-09-815-242-10315	Sequence 10315, A	934	84.5	3.2	954	4	US-10-437-963-166760	Sequence 166760,
862	85	3.2	495	3	US-09-815-242-11716	Sequence 11716, A	935	84.5	3.2	976	5	US-10-732-923-13613	Sequence 13613, A
863	85	3.2	495	4	US-10-282-122A-43262	Sequence 43262, A	936	84.5	3.2	1014	4	US-10-369-493-2716	Sequence 2716, Ap
864	85	3.2	495	4	US-10-282-122A-59384	Sequence 59384, A	937	84.5	3.2	1014	5	US-10-732-923-12920	Sequence 12920, A
865	85	3.2	495	4	US-10-351-891-124	Sequence 59384, A	938	84.5	3.2	1232	5	US-10-618-281-41	Sequence 41, Appl
866	85	3.2	495	5	US-09-909-566C-2	Sequence 124, App	939	84.5	3.2	1252	4	US-10-437-963-128496	Sequence 128496,
867	85	3.2	500	3	US-10-759-813-2	Sequence 29, Appl	940	84.5	3.2	1259	4	US-10-408-765A-2574	Sequence 2574, Ap
868	85	3.2	500	5	US-10-732-923-24095	Sequence 2, Appli	941	84.5	3.2	1384	4	US-10-437-421-25	Sequence 25, Appl
869	85	3.2	500	5	US-10-369-493-14349	Sequence 24095, A	942	84.5	3.2	1435	4	US-10-437-963-200808	Sequence 200808,
870	85	3.2	574	4	US-10-870-690-67	Sequence 14349, A	943	84.5	3.2	1441	4	US-10-437-963-159919	Sequence 159919,
871	85	3.2	582	4	US-10-369-493-24	Sequence 67, Appl	944	84.5	3.2	1444	4	US-10-282-122A-60977	Sequence 60977, A
872	85	3.2	594	4	US-10-108-605-169	Sequence 24, Appl	945	84.5	3.2	1496	4	US-10-437-963-138323	Sequence 138323,
873	85	3.2	631	4	US-10-108-605-169	Sequence 169, App	946	84.5	3.2	1544	6	US-11-097-143-33798	Sequence 33798, A
874	85	3.2	631	6	US-11-097-143-10920	Sequence 10920, A	947	84.5	3.2	1603	4	US-10-437-963-107022	Sequence 107022,
875	85	3.2	648	4	US-10-425-115-206110	Sequence 206110,	948	84.5	3.2	1812	3	US-09-775-938A-38	Sequence 38, Appl
876	85	3.2	713	4	US-10-369-493-708	Sequence 708, App	949	84.5	3.2	2021	4	US-10-408-765A-2317	Sequence 2317, Ap
877	85	3.2	809	4	US-10-282-122A-56289	Sequence 56289, A	950	84.5	3.2	3147	5	US-10-732-923-10253	Sequence 10253, A
878	85	3.2	810	3	US-09-815-242-5586	Sequence 5586, Ap	951	84.5	3.2	3167	5	US-10-732-923-10252	Sequence 10252, A
879	85	3.2	818	3	US-09-815-242-12424	Sequence 12424, A	952	84.5	3.2	4861	3	US-09-919-497-70	Sequence 70, Appl
880	85	3.2	818	3	US-09-815-242-12789	Sequence 12789, A	953	84.5	3.2	4861	4	US-10-146-473-49	Sequence 49, Appl
881	85	3.2	818	4	US-10-282-122A-44278	Sequence 44278, A	954	84.5	3.2	4861	5	US-10-287-436A-486	Sequence 486, App
882	85	3.2	818	5	US-10-732-923-6968	Sequence 6968, Ap	955	84.5	3.2	4861	5	US-10-287-436A-1182	Sequence 1182, Ap
883	85	3.2	932	4	US-10-126-927-65	Sequence 65, Appl	956	84.5	3.2	4899	6	US-11-097-143-24447	Sequence 24447, A
884	85	3.2	932	4	US-10-126-931A-65	Sequence 65, Appl	957	84.5	3.2	129	4	US-10-437-963-165340	Sequence 165340,
885	85	3.2	932	6	US-11-009-635-65	Sequence 65, Appl	958	84	3.2	231	5	US-10-181-585B-111	Sequence 111, App
886	85	3.2	960	5	US-10-739-930-5586	Sequence 5586, Ap	959	84	3.2	232	4	US-10-408-765A-832	Sequence 832, App
887	85	3.2	1038	4	US-10-282-122A-59110	Sequence 59110, A	960	84	3.2	239	4	US-10-408-765A-373	Sequence 373, App
888	85	3.2	1126	4	US-10-369-493-11877	Sequence 11877, A	961	84	3.2	278	4	US-10-425-114-64432	Sequence 64432, A
889	85	3.2	1144	5	US-10-501-282-2136	Sequence 2136, Ap	962	84	3.2	319	4	US-10-282-122A-47606	Sequence 47606, A
890	85	3.2	1274	5	US-10-491-472-52	Sequence 52, Appl	963	84	3.2	334	4	US-10-141-531-90	Sequence 90, Appl
891	85	3.2	1275	4	US-10-755-889-635	Sequence 635, App	964	84	3.2	334	4	US-10-141-531-99	Sequence 99, Appl
892	85	3.2	1285	4	US-10-452-024-165	Sequence 165, App	965	84	3.2	334	4	US-10-141-531-108	Sequence 108, App
893	85	3.2	1285	4	US-10-452-024-166	Sequence 166, App	966	84	3.2	334	4	US-10-141-531-117	Sequence 117, App
894	85	3.2	1291	4	US-10-369-493-6949	Sequence 6949, Ap	967	84	3.2	334	4	US-10-141-531-135	Sequence 135, App
895	85	3.2	1390	4	US-10-369-493-10438	Sequence 10438, A	968	84	3.2	334	4	US-10-141-531-144	Sequence 144, App
896	85	3.2	1452	4	US-10-282-122A-57720	Sequence 57720, A	969	84	3.2	334	4	US-10-141-531-162	Sequence 162, App
897	85	3.2	1464	4	US-10-038-224-2	Sequence 2, Appli	970	84	3.2	334	4	US-10-141-531-171	Sequence 171, App
898	85	3.2	1464	4	US-10-171-008-6	Sequence 6, Appli	971	84	3.2	334	4	US-10-141-531-180	Sequence 180, App
899	85	3.2	1464	4	US-10-371-077-8	Sequence 8, Appli	972	84	3.2	334	4	US-10-141-531-198	Sequence 198, App
900	85	3.2	1464	4	US-10-794-865-2	Sequence 2, Appli	973	84	3.2	334	4	US-10-290-072-90	Sequence 90, Appl
901	85	3.2	1567	4	US-10-282-122A-50371	Sequence 50371, A	974	84	3.2	334	4	US-10-290-072-99	Sequence 99, Appl
902	85	3.2	1692	5	US-10-756-149-5763	Sequence 5763, Ap	975	84	3.2	334	4	US-10-290-072-108	Sequence 108, App
903	85	3.2	1755	4	US-10-758-672A-4	Sequence 4, Appli	976	84	3.2	334	4	US-10-290-072-117	Sequence 117, App
904	85	3.2	1755	5	US-10-758-636A-4	Sequence 4, Appli	977	84	3.2	334	4	US-10-290-072-135	Sequence 135, App
905	85	3.2	3263	6	US-11-097-143-28422	Sequence 28422, A	978	84	3.2	334	4	US-10-290-072-144	Sequence 144, App
906	84.5	3.2	136	4	US-10-425-114-62402	Sequence 62402, A	979	84	3.2	334	4	US-10-290-072-162	Sequence 162, App
907	84.5	3.2	136	4	US-10-425-115-345494	Sequence 345494,	980	84	3.2	334	4	US-10-290-072-171	Sequence 171, App
908	84.5	3.2	293	5	US-10-204-921-89	Sequence 89, Appl	981	84	3.2	334	4	US-10-290-072-180	Sequence 180, App
909	84.5	3.2	306	4	US-10-437-963-171611	Sequence 171611,	982	84	3.2	334	4	US-10-290-072-198	Sequence 198, App
910	84.5	3.2	322	5	US-10-501-282-58	Sequence 58, Appl	983	84	3.2	334	4	US-10-290-072-137453	Sequence 137453,
911	84.5	3.2	332	4	US-10-282-122A-73768	Sequence 73768, A	984	84	3.2	338	4	US-10-437-963-137453	Sequence 437453,
912	84.5	3.2	332	4	US-10-474-776-620	Sequence 620, App	985	84	3.2	339	4	US-10-282-122A-48784	Sequence 48784, A
913	84.5	3.2	332	5	US-10-472-928-398	Sequence 398, App	986	84	3.2	349	4	US-10-767-701-45605	Sequence 45605, A
914	84.5	3.2	335	5	US-10-723-860-3454	Sequence 3454, Ap	987	84	3.2	363	5	US-10-732-923-10471	Sequence 10471, A



988	84	3.2	402	4	US-10-282-122A-59750	Sequence 59750, A
989	84	3.2	414	4	US-10-424-599-165357	Sequence 165357, A
990	84	3.2	420	4	US-10-369-493-9819	Sequence 9819, Ap
991	84	3.2	430	4	US-10-425-114-64524	Sequence 64524, A
992	84	3.2	431	4	US-10-425-115-307581	Sequence 307581, A
993	84	3.2	451	4	US-10-425-115-254495	Sequence 254495, A
994	84	3.2	455	4	US-10-437-963-152319	Sequence 152319, A
995	84	3.2	472	3	US-09-815-242-10824	Sequence 10824, A
996	84	3.2	501	4	US-10-282-122A-61998	Sequence 61998, A
997	84	3.2	548	5	US-10-898-775-58	Sequence 58, Appl
998	84	3.2	548	5	US-10-911-160-34	Sequence 34, Appl
999	84	3.2	559	4	US-10-282-122A-53355	Sequence 53355, A
1000	84	3.2	565	4	US-10-369-493-20201	Sequence 20201, A
1001	84	3.2	582	4	US-10-282-122A-68316	Sequence 68316, A
1002	84	3.2	586	4	US-10-389-566-1867	Sequence 1867, Ap
1003	84	3.2	594	4	US-10-094-749-2555	Sequence 2555, Ap
1004	84	3.2	633	4	US-10-087-192-159	Sequence 159, App
1005	84	3.2	666	4	US-10-369-493-20850	Sequence 20850, A
1006	84	3.2	788	5	US-10-732-923-20102	Sequence 20102, A
1007	84	3.2	793	4	US-10-369-493-3053	Sequence 3053, Ap
1008	84	3.2	808	4	US-10-282-122A-64283	Sequence 64283, A
1009	84	3.2	811	4	US-10-369-493-21030	Sequence 21030, A
1010	84	3.2	832	4	US-10-094-749-1919	Sequence 1919, Ap
1011	84	3.2	842	6	US-11-097-143-22125	Sequence 22125, A
1012	84	3.2	879	4	US-10-620-052A-6	Sequence 6, Appli
1013	84	3.2	917	3	US-09-815-242-5603	Sequence 5603, Ap
1014	84	3.2	920	3	US-09-815-242-12181	Sequence 12181, A
1015	84	3.2	941	4	US-10-369-493-3961	Sequence 3961, Ap
1016	84	3.2	974	5	US-10-450-763-36765	Sequence 36765, A
1017	84	3.2	1111	5	US-10-756-149-5247	Sequence 5247, Ap
1018	84	3.2	1111	5	US-10-450-763-39848	Sequence 39848, A
1019	84	3.2	1236	5	US-10-491-472-47	Sequence 47, Appl
1020	84	3.2	1356	4	US-10-369-493-16804	Sequence 16804, A
1021	84	3.2	1363	4	US-10-437-963-202754	Sequence 202754, A
1022	84	3.2	1396	4	US-10-282-122A-55213	Sequence 55213, A
1023	84	3.2	1734	4	US-10-758-672A-19	Sequence 19, Appl
1024	84	3.2	1734	5	US-10-758-636A-19	Sequence 19, Appl
1025	84	3.2	1738	4	US-10-287-218-1	Sequence 1, Appli
1026	84	3.2	1738	4	US-10-474-291-1	Sequence 1, Appli
1027	84	3.2	1749	4	US-10-758-672A-2	Sequence 2, Appli
1028	84	3.2	1749	5	US-10-357-819-10	Sequence 10, Appl
1029	84	3.2	1749	5	US-10-758-636A-2	Sequence 2, Appli
1030	84	3.2	1881	3	US-09-998-425-3	Sequence 3, Appli
1031	84	3.2	1881	3	US-09-997-977-3	Sequence 3, Appli
1032	84	3.2	1883	5	US-10-450-763-49480	Sequence 49480, A
1033	84	3.2	1955	4	US-10-437-963-123336	Sequence 123336, A
1034	84	3.2	2002	5	US-10-450-763-42915	Sequence 42915, A
1035	84	3.2	2383	5	US-10-450-763-30761	Sequence 30761, A
1036	84	3.2	2385	4	US-10-282-122A-46587	Sequence 46587, A
1037	84	3.2	2429	6	US-11-097-143-14145	Sequence 14145, A
1038	84	3.2	3343	4	US-10-369-493-5785	Sequence 5785, Ap
1039	84	3.2	3898	5	US-10-893-712-6	Sequence 6, Appli
1040	84	3.2	4299	4	US-10-080-334-90	Sequence 90, Appl
1041	83.5	3.2	131	5	US-10-893-581-11	Sequence 11, Appl
1042	83.5	3.2	131	5	US-10-892-659A-11	Sequence 11, Appl
1043	83.5	3.2	137	4	US-10-282-122A-62877	Sequence 62877, A
1044	83.5	3.2	212	4	US-10-282-122A-77370	Sequence 77370, A
1045	83.5	3.2	285	4	US-10-369-493-18391	Sequence 18391, A
1046	83.5	3.2	343	5	US-10-739-930-6448	Sequence 6448, Ap
1073	83.5	3.2	367	3	US-09-997-428-8	Sequence 8, Appli
1126	83.5	3.2	367	4	US-10-237-535-6	Sequence 6, Appli
1135	83.5	3.2	367	4	US-10-239-196-6	Sequence 6, Appli
1227	83.5	3.2	367	5	US-10-950-374-8	Sequence 8, Appli
1228	83.5	3.2	408	4	US-10-282-122A-52379	Sequence 52379, A
1229	83.5	3.2	415	4	US-10-424-599-281496	Sequence 281496, A
1230	83.5	3.2	415	4	US-10-425-114-47296	Sequence 47296, A
1231	83.5	3.2	424	5	US-10-831-070-232	Sequence 232, App
1232	83.5	3.2	428	4	US-10-369-493-2806	Sequence 2806, Ap
1233	83.5	3.2	433	4	US-10-282-122A-72691	Sequence 72691, A
1234	83.5	3.2	435	5	US-10-470-048B-138	Sequence 138, App
1235	83.5	3.2	445	4	US-10-369-493-18639	Sequence 18639, A
1236	83.5	3.2	445	5	US-10-732-923-19640	Sequence 19640, A
1237	83.5	3.2	458	4	US-10-141-531-93	Sequence 93, Appl

1238	83.5	3.2	458	4	US-10-290-072-93	Sequence 93, Appl
1239	83.5	3.2	472	4	US-10-425-114-41069	Sequence 41069, A
1240	83.5	3.2	485	5	US-10-450-763-46109	Sequence 46109, A
1241	83.5	3.2	490	4	US-10-369-493-3411	Sequence 3411, Ap
1242	83.5	3.2	490	5	US-10-866-527-18	Sequence 18, Appl
1243	83.5	3.2	515	4	US-10-432-934-10	Sequence 10, Appl
1244	83.5	3.2	532	4	US-10-369-493-11279	Sequence 11279, A
1245	83.5	3.2	535	5	US-10-732-923-22805	Sequence 22805, A
1246	83.5	3.2	545	4	US-10-282-122A-61248	Sequence 61248, A
1247	83.5	3.2	606	4	US-10-437-963-190056	Sequence 190056, A
1248	83.5	3.2	627	5	US-10-732-923-22803	Sequence 22803, A
1249	83.5	3.2	667	4	US-10-032-201B-288	Sequence 288, App
1250	83.5	3.2	695	5	US-10-732-923-9813	Sequence 9813, Ap
1251	83.5	3.2	768	4	US-10-282-122A-45053	Sequence 45053, A
1252	83.5	3.2	769	5	US-10-732-923-23198	Sequence 23198, A
1253	83.5	3.2	792	4	US-10-369-493-9698	Sequence 9698, Ap
1254	83.5	3.2	859	4	US-10-437-963-186692	Sequence 186692, A
1255	83.5	3.2	872	4	US-10-437-963-203095	Sequence 203095, A
1256	83.5	3.2	886	4	US-10-374-780A-666	Sequence 666, App
1257	83.5	3.2	886	4	US-10-412-699B-1109	Sequence 1109, Ap
1258	83.5	3.2	886	4	US-10-437-963-186432	Sequence 186432, A
1259	83.5	3.2	909	3	US-09-812-350-23	Sequence 23, Appl
1260	83.5	3.2	909	5	US-10-732-923-6853	Sequence 6853, Ap
1261	83.5	3.2	919	4	US-10-282-122A-70737	Sequence 70737, A
1262	83.5	3.2	927	4	US-10-724-972A-5691	Sequence 5691, Ap
1263	83.5	3.2	933	4	US-10-437-963-175549	Sequence 175549, A
1264	83.5	3.2	980	4	US-10-363-616-414	Sequence 414, App
1265	83.5	3.2	1009	4	US-10-282-122A-71141	Sequence 71141, A
1266	83.5	3.2	1010	4	US-10-724-972A-4177	Sequence 4177, Ap
1267	83.5	3.2	1063	5	US-10-450-763-43038	Sequence 43038, A
1268	83.5	3.2	1109	3	US-09-529-063-55	Sequence 55, Appl
1269	83.5	3.2	1109	4	US-10-414-378-55	Sequence 55, Appl
1270	83.5	3.2	1156	5	US-10-823-432-32	Sequence 32, Appl
1271	83.5	3.2	1217	4	US-10-156-761-13942	Sequence 13942, A
1272	83.5	3.2	1335	4	US-10-437-963-149948	Sequence 149948, A
1273	83.5	3.2	1660	4	US-10-437-963-110032	Sequence 110032, A
1274	83.5	3.2	2081	4	US-10-369-493-3423	Sequence 3423, Ap
1275	83.5	3.2	2322	3	US-09-919-039-15	Sequence 15, Appl
1276	83.5	3.2	2322	4	US-10-698-190-20	Sequence 20, Appl
1277	83.5	3.2	2322	5	US-10-723-860-3601	Sequence 3601, Ap
1278	83.5	3.2	2551	5	US-10-732-923-20568	Sequence 20568, A
1279	83.5	3.2	3169	4	US-10-114-170-257	Sequence 257, App
1280	83.5	3.2	3562	4	US-10-341-434-109	Sequence 109, App
1281	83	3.2	148	4	US-10-424-599-248355	Sequence 248355, A
1282	83	3.2	231	5	US-10-181-585B-107	Sequence 107, App
1283	83	3.2	255	4	US-10-282-122A-61025	Sequence 61025, A
1284	83	3.2	255	5	US-10-732-923-1545	Sequence 1545, Ap
1285	83	3.2	291	4	US-10-425-114-58087	Sequence 58087, A
1286	83	3.2	376	4	US-10-437-963-179917	Sequence 179917, A
1287	83	3.2	376	5	US-10-481-032A-516	Sequence 516, App
1288	83	3.2	389	4	US-10-250-615-17	Sequence 17, Appl
1289	83	3.2	425	4	US-10-282-122A-45670	Sequence 45670, A
1316	83	3.2	444	3	US-09-997-428-410	Sequence 410, App

Search completed: March 16, 2006, 17:40:11

Job time : 197 secs



GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: March 16, 2006, 17:37:19 ; Search time 23 Seconds  
(without alignments)  
630.948 Million cell updates/sec

Perfect score: 2623  
Sequence: 1 MDPKLGKRMASLLAVLLLLL.....NYIEGTKLFAPFLMAQLH 507

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 169630 seqs, 28622889 residues

Total number of hits satisfying chosen parameters: 169630

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1500 summaries

Database : Published Applications AA New:\*  
1: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB pep:\*  
2: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB pep:\*  
3: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB pep:\*  
4: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB pep:\*  
5: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB pep:\*  
6: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB pep:\*  
7: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB pep:\*  
8: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1363	52.0	475	6	US-10-878-556A-115
2	242.5	9.2	267	6	US-10-454-437-192
3	242.5	9.2	267	7	US-11-055-822-358
4	233	8.9	231	6	US-10-454-437-194
5	210	8.0	411	6	US-10-467-657-5868
6	174	6.6	394	7	US-11-232-405A-44
7	126	4.8	418	6	US-10-793-626-380
8	112	4.3	410	7	US-11-159-428-10
9	111.5	4.3	1798	7	US-11-080-991-96
10	111.5	4.3	1960	7	US-11-077-386-29
11	111.5	4.3	2061	7	US-11-077-386-27
12	111.5	4.3	2061	7	US-11-169-041-179
13	111	4.2	422	6	US-10-454-437-202
14	111	4.2	422	7	US-11-055-822-372
15	108	4.1	246	6	US-10-454-437-206
16	103.5	3.9	546	6	US-10-821-234-902
17	103.5	3.9	805	6	US-10-485-517-297
18	103	3.9	444	7	US-11-087-099-4887
19	100.5	3.8	1473	7	US-11-019-711-112
20	100.5	3.8	7465	7	US-11-087-099-7521
21	100	3.8	273	7	US-11-096-568A-28257
22	100	3.8	282	7	US-11-096-568A-28256
23	100	3.8	462	7	US-11-096-568A-28255
24	99	3.8	442	6	US-10-909-769-23
25	97.5	3.7	749	7	US-11-074-176-54
26	96.5	3.7	498	7	US-11-131-479-76
					Sequence 115, App
					Sequence 192, App
					Sequence 358, App
					Sequence 194, App
					Sequence 5868, Ap
					Sequence 44, Appl
					Sequence 380, App
					Sequence 10, Appl
					Sequence 96, Appl
					Sequence 29, Appl
					Sequence 179, App
					Sequence 202, App
					Sequence 372, App
					Sequence 206, App
					Sequence 902, App
					Sequence 297, App
					Sequence 4887, Ap
					Sequence 112, App
					Sequence 7521, Ap
					Sequence 28257, A
					Sequence 28256, A
					Sequence 28255, A
					Sequence 23, Appl
					Sequence 54, Appl
					Sequence 76, Appl

3.7	96	27	7	313	7	US-11-087-099-3451	Sequence 3451, Ap
3.6	94.5	28	6	478	6	US-10-793-626-768	Sequence 768, App
3.6	94	29	6	817	6	US-10-793-626-50	Sequence 50, Appl
3.6	94	30	6	817	6	US-10-793-626-1528	Sequence 1528, Ap
3.6	93.5	31	7	628	7	US-11-096-568A-26880	Sequence 26880, A
3.6	93.5	32	7	639	7	US-11-096-568A-26879	Sequence 26879, A
3.5	92.5	33	7	746	7	US-11-074-176-314	Sequence 314, App
3.5	92	34	7	360	7	US-11-087-099-12295	Sequence 12295, A
3.5	91.5	35	6	1732	6	US-10-055-877-147	Sequence 147, App
3.5	91	36	7	1054	7	US-11-072-512-2938	Sequence 2938, Ap
3.5	91	37	6	1680	6	US-10-517-939-362	Sequence 362, App
3.5	90.5	38	7	1433	7	US-11-096-568A-31241	Sequence 31241, A
3.5	90.5	39	7	1474	7	US-11-096-568A-31240	Sequence 31240, A
3.5	90.5	40	7	1496	7	US-11-096-568A-31239	Sequence 31239, A
3.5	90.5	41	7	1647	7	US-11-052-554A-260	Sequence 260, App
3.4	90	42	7	2640	7	US-11-087-099-11966	Sequence 11966, A
3.4	89.5	43	7	342	7	US-11-087-099-3886	Sequence 3886, Ap
3.4	89.5	44	7	342	7	US-11-096-568A-20985	Sequence 20985, A
3.4	89.5	45	6	1007	6	US-10-467-657-8514	Sequence 8514, Ap
3.4	89	46	7	298	7	US-11-096-568A-20986	Sequence 20986, A
3.4	89	47	6	732	6	US-10-518-599-22	Sequence 22, Appl
3.4	88.5	48	7	469	7	US-11-096-568A-25562	Sequence 25562, A
3.4	88	49	6	357	6	US-10-878-556A-83	Sequence 83, Appl
3.4	88	50	7	357	7	US-11-202-566-21	Sequence 21, Appl
3.4	88	51	7	563	7	US-11-040-218-23	Sequence 23, Appl
3.4	88	52	7	616	7	US-11-072-512-2331	Sequence 2331, Ap
3.3	87.5	53	6	560	6	US-10-995-561-1026	Sequence 1026, Ap
3.3	87.5	54	6	616	6	US-10-995-561-1018	Sequence 1018, Ap
3.3	87.5	55	6	616	6	US-10-995-561-1022	Sequence 1022, Ap
3.3	87.5	56	6	732	6	US-10-518-599-23	Sequence 23, Appl
3.3	87.5	57	6	732	6	US-10-995-561-1020	Sequence 1020, Ap
3.3	87.5	58	7	828	7	US-11-087-099-2436	Sequence 2436, Ap
3.3	87.5	59	6	1160	6	US-10-995-561-1019	Sequence 1019, Ap
3.3	87.5	60	6	1302	6	US-10-995-561-1024	Sequence 1024, Ap
3.3	87.5	61	6	1306	6	US-10-995-561-1027	Sequence 1027, Ap
3.3	87	62	6	424	6	US-10-995-561-1017	Sequence 1017, Ap
3.3	87	63	6	444	6	US-10-995-561-834	Sequence 834, App
3.3	87	64	6	444	6	US-10-995-561-835	Sequence 835, App
3.3	87	65	7	444	7	US-11-071-580-1	Sequence 1, Appli
3.3	87	66	6	484	6	US-10-995-561-833	Sequence 833, App
3.3	87	67	7	582	7	US-11-096-568A-18033	Sequence 18033, A
3.3	87	68	7	605	7	US-11-096-568A-18032	Sequence 18032, A
3.3	87	69	7	609	7	US-11-096-568A-18031	Sequence 18031, A
3.3	86.5	70	7	816	7	US-11-143-980-67	Sequence 67, Appl
3.3	86	71	7	325	7	US-11-087-099-12318	Sequence 12318, A
3.3	86	72	7	535	7	US-11-096-568A-26881	Sequence 26881, A
3.3	86	73	7	1163	7	US-11-044-899-2	Sequence 2, Appli
3.3	86	74	7	1163	7	US-11-044-899-30	Sequence 30, Appl
3.3	85.5	75	6	268	6	US-10-821-234-866	Sequence 866, App
3.2	85	76	7	495	7	US-11-032-773-940	Sequence 940, App
3.2	85	77	7	500	7	US-11-087-099-4317	Sequence 4317, Ap
3.2	85	78	7	500	7	US-11-149-420-53	Sequence 53, Appl
3.2	85	79	6	547	6	US-10-177-412-2	Sequence 53, Appl
3.2	85	80	7	932	7	US-11-017-550-65	Sequence 65, Appl
3.2	84.5	81	7	336	7	US-11-096-568A-33747	Sequence 33747, A
3.2	84.5	82	7	342	7	US-11-096-568A-33746	Sequence 33746, A
3.2	84.5	83	7	343	7	US-11-096-568A-33745	Sequence 33745, A
3.2	84.5	84	7	434	7	US-11-055-822-794	Sequence 794, App
3.2	84.5	85	7	541	7	US-11-096-568A-20889	Sequence 20889, A
3.2	84.5	86	7	803	7	US-11-200-296B-63	Sequence 63, Appl
3.2	84.5	87	7	1166	7	US-11-096-568A-30860	Sequence 30860, A
3.2	84.5	88	7	1218	7	US-11-096-568A-30859	Sequence 30859, A
3.2	84.5	89	7	1388	7	US-11-096-568A-30858	Sequence 30858, A
3.2	84	90	7	435	7	US-11-096-568A-19792	Sequence 19792, A
3.2	84	91	7	448	7	US-11-096-568A-19791	Sequence 19791, A
3.2	84	92	7	451	7	US-11-096-568A-19790	Sequence 19790, A
3.2	84	93	7	645	7	US-11-087-099-3446	Sequence 3446, Ap
3.2	84	94	5	650	5	US-09-995-493-170	Sequence 170, App
3.2	84	95	6	735	7	US-11-087-099-4045	Sequence 4045, Ap
3.2	84	96	7	879	7	US-10-770-726-78	Sequence 78, Appl
3.2	83.5	97	6	510	6	US-10-793-626-2860	Sequence 2860, Ap
3.2	83.5	98	6	583	6	US-10-793-626-1358	Sequence 1358, Ap
3.2	83.5	99	7	601	7	US-11-096-568A-14916	Sequence 14916, A

100	83.5	3.2	890	6	US-10-510-386-26	Sequence 26, Appl	175	79.5	3.0	449	7	US-11-096-568A-19133	Sequence 19133, A
101	83.5	3.2	1388	7	US-11-098-686-11149	Sequence 11149, A	176	79.5	3.0	493	6	US-10-793-626-1832	Sequence 1832, Ap
103	83	3.2	444	6	US-10-973-115B-498	Sequence 498, App	177	79.5	3.0	556	7	US-11-037-243-106	Sequence 106, App
104	83	3.2	488	6	US-10-485-517-307	Sequence 307, App	178	79.5	3.0	605	7	US-11-096-568A-24622	Sequence 24622, A
105	83	3.2	498	7	US-11-131-479-2	Sequence 2, Appli	179	79.5	3.0	628	7	US-11-087-099-4659	Sequence 4659, Ap
106	83	3.2	522	7	US-11-131-479-7	Sequence 7, Appli	180	79.5	3.0	673	7	US-11-096-568A-24621	Sequence 24621, A
107	83	3.2	522	7	US-11-131-479-9	Sequence 9, Appli	181	79.5	3.0	1307	6	US-10-995-561-711	Sequence 711, App
108	83	3.2	522	7	US-11-131-479-11	Sequence 11, Appl	182	79.5	3.0	1627	7	US-11-052-554A-124	Sequence 124, App
109	83	3.2	558	6	US-10-821-234-1640	Sequence 1640, Ap	183	79.5	3.0	3689	7	US-11-075-185-4	Sequence 4, Appli
110	82.5	3.2	2080	6	US-10-055-877-146	Sequence 146, App	184	79	3.0	305	7	US-11-096-568A-11077	Sequence 11077, A
111	82	3.1	519	7	US-11-096-568A-29318	Sequence 29318, A	185	79	3.0	323	7	US-11-202-566-1	Sequence 1, Appli
112	82	3.1	541	7	US-11-096-568A-29317	Sequence 29317, A	186	79	3.0	342	7	US-11-087-099-667	Sequence 667, App
113	82	3.1	563	7	US-11-096-568A-29316	Sequence 29316, A	187	79	3.0	344	7	US-11-096-568A-11076	Sequence 11076, A
114	82	3.1	1193	7	US-11-115-639-21	Sequence 21, Appl	188	79	3.0	353	7	US-11-096-568A-7914	Sequence 7914, Ap
115	81.5	3.1	358	6	US-10-485-517-227	Sequence 227, App	189	79	3.0	355	7	US-11-087-099-8468	Sequence 8468, Ap
116	81.5	3.1	382	7	US-11-096-568A-19385	Sequence 19385, A	190	79	3.0	359	7	US-11-087-099-7025	Sequence 7025, Ap
117	81.5	3.1	386	7	US-11-096-568A-19384	Sequence 19384, A	191	79	3.0	373	7	US-11-087-099-7025	Sequence 7025, Ap
118	81.5	3.1	442	6	US-10-513-639-25	Sequence 25, Appl	192	79	3.0	376	7	US-11-096-568A-6341	Sequence 6341, A
119	81.5	3.1	444	7	US-11-205-109-7	Sequence 7, Appli	193	79	3.0	390	7	US-11-096-568A-11075	Sequence 11075, A
120	81.5	3.1	539	6	US-10-878-556A-88	Sequence 88, Appl	194	79	3.0	433	7	US-11-096-568A-6340	Sequence 6340, Ap
121	81.5	3.1	563	7	US-11-096-568A-19383	Sequence 19383, A	195	79	3.0	463	7	US-11-096-568A-7913	Sequence 7913, Ap
122	81.5	3.1	599	6	US-10-957-569-12	Sequence 12, Appl	196	79	3.0	467	7	US-11-202-566-11	Sequence 11, Appl
123	81.5	3.1	599	7	US-11-097-589-10	Sequence 10, Appl	197	79	3.0	523	6	US-11-096-568A-7912	Sequence 7912, Ap
124	81.5	3.1	706	7	US-11-024-959-269	Sequence 269, App	198	79	3.0	523	6	US-10-453-372-1006	Sequence 1006, Ap
125	81.5	3.1	860	7	US-11-087-099-9447	Sequence 9447, Ap	199	79	3.0	855	7	US-10-453-372-1008	Sequence 1008, Ap
126	81.5	3.1	1111	7	US-11-087-099-998	Sequence 998, App	200	79	3.0	860	7	US-11-087-099-12274	Sequence 12274, A
127	81.5	3.1	1111	7	US-11-087-099-5147	Sequence 5147, Ap	201	79	3.0	972	7	US-11-087-099-3110	Sequence 3110, Ap
128	81.5	3.1	1549	7	US-11-096-568A-31271	Sequence 31271, A	202	79	3.0	1228	7	US-11-202-566-9	Sequence 9, Appli
129	81.5	3.1	8695	7	US-11-205-109-15	Sequence 15, Appl	203	78.5	3.0	348	6	US-11-202-566-7	Sequence 7, Appli
130	81	3.1	414	7	US-11-096-568A-28912	Sequence 28912, A	204	78.5	3.0	365	7	US-10-617-034A-1	Sequence 1, Appli
131	81	3.1	421	6	US-10-878-556A-173	Sequence 173, App	205	78.5	3.0	385	7	US-11-087-099-4280	Sequence 4280, Ap
132	81	3.1	443	6	US-10-873-528-152	Sequence 152, App	206	78.5	3.0	418	7	US-11-087-099-1453	Sequence 1453, Ap
133	81	3.1	479	7	US-11-096-568A-28911	Sequence 28911, A	207	78.5	3.0	449	7	US-11-096-568A-26975	Sequence 26975, A
134	81	3.1	481	7	US-11-096-568A-28910	Sequence 28910, A	208	78.5	3.0	459	6	US-11-087-099-4178	Sequence 4178, Ap
135	81	3.1	485	6	US-10-793-626-1346	Sequence 1346, Ap	209	78.5	3.0	637	7	US-10-467-657-3092	Sequence 3092, Ap
136	81	3.1	635	6	US-10-467-657-2076	Sequence 2076, Ap	210	78.5	3.0	638	6	US-11-087-099-2517	Sequence 2517, Ap
137	81	3.1	635	6	US-10-467-657-6374	Sequence 6374, Ap	211	78.5	3.0	730	7	US-10-995-561-1025	Sequence 1025, Ap
138	81	3.1	752	7	US-11-087-099-12393	Sequence 12393, A	212	78.5	3.0	757	7	US-11-113-424-50	Sequence 50, Appl
139	81	3.1	873	6	US-10-793-626-3036	Sequence 3036, Ap	213	78.5	3.0	1183	7	US-11-031-206-184	Sequence 184, App
140	81	3.1	1149	7	US-11-110-082-30	Sequence 30, Appl	214	78.5	3.0	1571	7	US-11-115-639-17	Sequence 17, Appl
141	81	3.1	1193	7	US-11-115-639-19	Sequence 19, Appl	215	78.5	3.0	1571	7	US-11-134-587B-12	Sequence 12, Appl
142	81	3.1	1193	7	US-11-115-639-20	Sequence 20, Appl	216	78.5	3.0	1618	6	US-11-134-587B-13	Sequence 13, Appl
143	81	3.1	1216	7	US-11-115-639-44	Sequence 44, Appl	217	78.5	3.0	1910	7	US-10-984-645-2	Sequence 2, Appli
144	81	3.1	1216	7	US-11-115-639-45	Sequence 45, Appl	218	78.5	3.0	1910	7	US-11-134-587B-2	Sequence 2, Appli
145	80.5	3.1	308	7	US-11-096-568A-20980	Sequence 20980, A	219	78.5	3.0	3655	7	US-11-134-587B-3	Sequence 3, Appli
146	80.5	3.1	348	7	US-11-096-568A-20979	Sequence 20979, A	220	78	3.0	456	7	US-11-075-185-5	Sequence 5, Appli
147	80.5	3.1	368	7	US-11-096-568A-20978	Sequence 20978, A	221	78	3.0	617	7	US-11-069-642-15	Sequence 15, Appl
148	80.5	3.1	498	7	US-11-096-568A-20978	Sequence 20978, A	222	78	3.0	676	7	US-11-096-568A-8956	Sequence 8956, Ap
149	80.5	3.1	500	7	US-11-096-568A-5071	Sequence 5071, Ap	223	78	3.0	801	6	US-11-052-554A-41	Sequence 41, Appl
150	80.5	3.1	571	6	US-11-096-568A-5070	Sequence 5070, Ap	224	78	3.0	801	6	US-10-453-372-466	Sequence 466, App
151	80.5	3.1	587	7	US-10-793-626-118	Sequence 118, App	225	78	3.0	829	6	US-10-453-372-468	Sequence 468, App
152	80.5	3.1	614	7	US-11-087-099-9951	Sequence 9951, Ap	226	78	3.0	829	6	US-10-880-144-6	Sequence 6, Appli
153	80.5	3.1	657	7	US-11-074-176-80	Sequence 80, Appl	227	78	3.0	852	7	US-11-087-099-4834	Sequence 4834, Ap
154	80.5	3.1	677	7	US-11-087-099-11696	Sequence 11696, A	228	78	3.0	1114	7	US-11-087-099-4834	Sequence 4834, Ap
155	80.5	3.1	758	7	US-11-010-239-48	Sequence 48, Appl	229	78	3.0	1116	7	US-11-096-568A-31532	Sequence 31532, A
156	80.5	3.1	834	6	US-11-087-099-7759	Sequence 7759, Ap	230	78	3.0	1153	7	US-11-096-568A-31531	Sequence 31531, A
157	80.5	3.1	867	7	US-10-973-115B-148	Sequence 148, App	231	78	3.0	1159	7	US-11-096-568A-31530	Sequence 31530, A
158	80.5	3.1	867	7	US-11-087-099-10404	Sequence 10404, A	232	78	3.0	299	6	US-11-194-246-439	Sequence 439, App
159	80	3.0	337	7	US-11-087-099-10404	Sequence 23702, A	233	77.5	3.0	299	6	US-10-467-657-436	Sequence 436, App
160	80	3.0	343	7	US-11-096-568A-23702	Sequence 26968, A	234	77.5	3.0	579	6	US-10-821-234-1352	Sequence 1352, Ap
161	80	3.0	345	7	US-11-096-568A-26968	Sequence 1996, Ap	235	77.5	3.0	714	7	US-11-096-568A-27921	Sequence 27921, A
162	80	3.0	401	7	US-11-087-099-1996	Sequence 23701, A	236	77.5	3.0	834	7	US-11-072-512-2323	Sequence 2323, Ap
163	80	3.0	433	7	US-11-096-568A-23701	Sequence 23701, A	237	77.5	3.0	841	6	US-10-624-932-6	Sequence 6, Appli
164	80	3.0	476	7	US-11-096-568A-23700	Sequence 23700, A	238	77.5	3.0	841	6	US-10-624-932-8	Sequence 8, Appli
165	80	3.0	512	6	US-11-264-728-2	Sequence 2, Appli	239	77.5	3.0	1206	6	US-10-995-561-709	Sequence 709, App
166	80	3.0	838	7	US-10-821-234-1032	Sequence 1032, Ap	240	77.5	3.0	2256	7	US-10-624-932-4	Sequence 4, Appli
167	80	3.0	917	7	US-11-096-568A-32096	Sequence 32096, A	241	77.5	3.0	2455	7	US-11-144-368-4	Sequence 4, Appli
168	80	3.0	949	7	US-11-096-568A-32095	Sequence 32095, A	242	77.5	3.0	2458	7	US-11-186-999-4	Sequence 13, Appl
169	80	3.0	1164	7	US-11-096-568A-32094	Sequence 32094, A	243	77.5	3.0	4913	6	US-11-186-999-13	Sequence 13, Appl
170	80	3.0	1164	7	US-11-087-099-2278	Sequence 2278, Ap	244	77.5	3.0	4961	6	US-10-453-372-1142	Sequence 1142, Ap
171	80	3.0	1164	7	US-11-087-099-9070	Sequence 9070, Ap	245	77	2.9	249	7	US-10-453-372-1132	Sequence 1132, Ap
172	79.5	3.0	409	7	US-11-186-731-5	Sequence 5, Appli	246	77	2.9	358	7	US-11-087-099-9281	Sequence 9281, Ap
173	79.5	3.0	415	7	US-11-096-568A-19135	Sequence 19135, A	247	77	2.9	377	7	US-11-024-959-402	Sequence 402, App
174	79.5	3.0	442	6	US-11-096-568A-19134	Sequence 19134, A	248	77	2.9	381	7	US-11-019-711-66	Sequence 66, Appl
					US-10-873-528-6	Sequence 6, Appli	249	77	2.9	381	7	US-11-055-822-414	Sequence 414, App
							250	77	2.9	381	7	US-11-055-822-706	Sequence 706, App



248	77	2.9	463	7	US-11-087-099-5364	Sequence 5364, Ap	323	75.5	2.9	1275	6	US-10-724-598-49	Sequence 49, Appl
249	77	2.9	513	7	US-11-096-568A-466	Sequence 466, App	324	75.5	2.9	2769	7	US-11-113-424-14	Sequence 14, Appl
250	77	2.9	544	7	US-11-096-568A-465	Sequence 465, App	325	75	2.9	264	7	US-11-087-099-772	Sequence 772, App
251	77	2.9	544	7	US-11-096-568A-467	Sequence 467, App	326	75	2.9	374	6	US-10-793-626-1664	Sequence 1664, Ap
252	77	2.9	563	7	US-11-096-568A-464	Sequence 464, App	327	75	2.9	465	7	US-11-024-959-288	Sequence 288, App
253	77	2.9	598	6	US-10-203-486-11	Sequence 11, Appl	328	75	2.9	485	7	US-11-165-211-47	Sequence 47, Appl
254	77	2.9	626	7	US-11-098-686-10124	Sequence 10124, A	329	75	2.9	485	7	US-11-165-226-57	Sequence 57, Appl
255	77	2.9	649	7	US-11-072-512-3492	Sequence 3492, Ap	330	75	2.9	592	6	US-10-467-962B-95	Sequence 95, Appl
256	77	2.9	701	7	US-11-096-568A-27913	Sequence 27913, A	331	75	2.9	592	6	US-10-524-647-112	Sequence 112, App
257	77	2.9	738	7	US-11-147-047-48	Sequence 48, Appl	332	75	2.9	592	6	US-10-524-972-100	Sequence 100, App
258	77	2.9	779	7	US-11-096-568A-1544	Sequence 1544, Ap	333	75	2.9	674	7	US-11-096-568A-2565	Sequence 2565, Ap
259	77	2.9	784	7	US-11-096-568A-1543	Sequence 1543, Ap	334	75	2.9	676	7	US-11-096-568A-2564	Sequence 2564, Ap
260	77	2.9	831	7	US-11-096-568A-1542	Sequence 1542, Ap	335	75	2.9	737	7	US-11-098-686-11389	Sequence 11389, A
261	77	2.9	1070	7	US-11-147-047-49	Sequence 49, Appl	336	75	2.9	960	7	US-11-087-099-8676	Sequence 8676, Ap
262	77	2.9	1204	7	US-11-145-631-5	Sequence 5, Appli	337	75	2.9	1059	7	US-11-096-568A-30370	Sequence 30370, A
263	76.5	2.9	371	7	US-11-087-099-9685	Sequence 9685, Ap	338	75	2.9	1077	7	US-11-096-568A-30369	Sequence 30369, A
264	76.5	2.9	374	6	US-10-793-626-2162	Sequence 2162, Ap	339	75	2.9	1108	7	US-11-096-568A-28813	Sequence 28813, A
265	76.5	2.9	446	6	US-10-533-811-49	Sequence 49, Appl	340	75	2.9	1108	7	US-11-096-568A-30368	Sequence 30368, A
266	76.5	2.9	519	7	US-11-096-568A-29569	Sequence 29569, A	341	75	2.9	1115	7	US-11-096-568A-28812	Sequence 28812, A
267	76.5	2.9	525	7	US-11-096-568A-28134	Sequence 28134, A	342	75	2.9	1144	7	US-11-096-568A-28811	Sequence 28811, A
268	76.5	2.9	525	7	US-11-096-568A-29568	Sequence 29568, A	343	75	2.9	1152	7	US-11-055-822-308	Sequence 308, App
269	76.5	2.9	532	7	US-11-096-568A-13049	Sequence 13049, A	344	75	2.9	1338	7	US-11-087-099-11043	Sequence 11043, A
270	76.5	2.9	543	7	US-11-096-568A-28133	Sequence 28133, A	345	75	2.9	6893	7	US-11-205-109-14	Sequence 14, Appl
271	76.5	2.9	543	7	US-11-096-568A-29567	Sequence 29567, A	346	74.5	2.8	257	7	US-11-096-568A-16683	Sequence 16683, A
272	76.5	2.9	559	6	US-10-821-234-947	Sequence 947, App	347	74.5	2.8	283	7	US-11-096-568A-29608	Sequence 29608, A
273	76.5	2.9	566	7	US-11-096-568A-28132	Sequence 28132, A	348	74.5	2.8	305	7	US-11-087-099-8904	Sequence 8904, Ap
275	76.5	2.9	613	6	US-10-973-115B-190	Sequence 190, App	349	74.5	2.8	315	7	US-11-098-686-11063	Sequence 11063, A
276	76.5	2.9	993	7	US-11-132-764-7	Sequence 7, Appli	350	74.5	2.8	341	7	US-11-096-568A-28714	Sequence 28714, A
277	76.5	2.9	1010	6	US-10-959-611-2	Sequence 2, Appli	351	74.5	2.8	341	7	US-11-096-568A-29607	Sequence 29607, A
278	76.5	2.9	1064	7	US-11-087-099-10112	Sequence 10112, A	352	74.5	2.8	352	7	US-11-096-568A-28713	Sequence 28713, A
279	76.5	2.9	1628	7	US-11-231-599-8	Sequence 8, Appli	353	74.5	2.8	352	7	US-11-096-568A-29606	Sequence 29606, A
280	76.5	2.9	2458	7	US-11-186-999-6	Sequence 6, Appli	354	74.5	2.8	355	7	US-11-087-099-11688	Sequence 11688, A
281	76	2.9	229	7	US-11-096-568A-10668	Sequence 10668, A	355	74.5	2.8	357	7	US-11-096-568A-28712	Sequence 28712, A
282	76	2.9	333	6	US-10-793-626-1960	Sequence 1960, Ap	356	74.5	2.8	404	7	US-11-096-568A-26976	Sequence 26976, A
283	76	2.9	418	6	US-10-878-556A-53	Sequence 53, Appl	357	74.5	2.8	434	6	US-10-821-234-1553	Sequence 1553, Ap
284	76	2.9	465	7	US-11-024-959-287	Sequence 287, App	358	74.5	2.8	454	7	US-11-074-176-142	Sequence 142, App
285	76	2.9	481	6	US-10-995-561-959	Sequence 959, App	359	74.5	2.8	468	6	US-10-467-657-2274	Sequence 2274, Ap
286	76	2.9	497	6	US-10-793-626-2812	Sequence 2812, Ap	360	74.5	2.8	475	7	US-11-087-099-318	Sequence 318, App
287	76	2.9	516	7	US-11-087-099-6982	Sequence 6982, Ap	361	74.5	2.8	475	7	US-11-087-099-10810	Sequence 10810, A
288	76	2.9	616	7	US-11-096-568A-18968	Sequence 18968, A	362	74.5	2.8	484	6	US-10-467-657-5472	Sequence 5472, Ap
289	76	2.9	623	7	US-11-096-568A-18967	Sequence 18967, A	363	74.5	2.8	489	7	US-11-096-568A-32213	Sequence 32213, A
290	76	2.9	650	7	US-11-096-568A-18966	Sequence 18966, A	364	74.5	2.8	509	6	US-10-934-944-374	Sequence 374, App
291	76	2.9	661	7	US-11-216-267-16	Sequence 16, Appl	365	74.5	2.8	509	6	US-11-116-881A-2270	Sequence 2270, Ap
292	76	2.9	661	7	US-11-232-382-16	Sequence 16, Appl	366	74.5	2.8	539	7	US-11-096-568A-32212	Sequence 32212, A
293	76	2.9	855	7	US-11-072-512-2387	Sequence 2387, Ap	367	74.5	2.8	545	7	US-11-096-568A-32211	Sequence 32211, A
294	76	2.9	896	7	US-11-080-991-98	Sequence 98, Appl	368	74.5	2.8	550	7	US-11-098-686-10696	Sequence 10696, A
295	76	2.9	1029	6	US-10-821-234-908	Sequence 908, App	369	74.5	2.8	599	6	US-10-467-657-3972	Sequence 3972, Ap
296	76	2.9	1078	7	US-11-096-568A-30451	Sequence 30451, A	370	74.5	2.8	601	6	US-10-821-234-958	Sequence 958, App
297	76	2.9	1116	7	US-11-096-568A-30450	Sequence 30450, A	371	74.5	2.8	630	7	US-11-196-400-5	Sequence 5, Appli
298	76	2.9	1123	7	US-11-096-568A-30449	Sequence 30449, A	372	74.5	2.8	630	7	US-11-169-041-166	Sequence 166, App
299	76	2.9	1475	6	US-10-330-773-182	Sequence 182, App	373	74.5	2.8	792	7	US-11-200-296B-65	Sequence 65, Appl
300	76	2.9	1855	7	US-11-096-568A-31249	Sequence 31249, A	374	74.5	2.8	1183	7	US-11-115-639-16	Sequence 16, Appl
301	76	2.9	1885	7	US-11-096-568A-31248	Sequence 31248, A	375	74.5	2.8	1196	7	US-11-072-512-2933	Sequence 2933, Ap
302	76	2.9	1992	7	US-11-096-568A-31247	Sequence 31247, A	376	74.5	2.8	1579	7	US-11-052-554A-9	Sequence 9, Appli
303	76	2.9	3748	7	US-11-132-686-8	Sequence 8, Appli	377	74.5	2.8	2458	7	US-11-186-999-11	Sequence 11, Appl
304	76	2.9	3749	7	US-11-132-686-6	Sequence 6, Appli	378	74.5	2.8	4386	7	US-11-004-399-714	Sequence 714, App
305	76	2.9	3749	7	US-11-132-686-12	Sequence 12, Appl	379	74	2.8	171	7	US-11-096-568A-25452	Sequence 25452, A
306	76	2.9	3912	7	US-11-132-686-7	Sequence 7, Appl	380	74	2.8	181	6	US-10-793-626-86	Sequence 86, Appl
307	76	2.9	3913	7	US-11-132-686-5	Sequence 5, Appli	381	74	2.8	185	7	US-11-096-568A-25451	Sequence 25451, A
308	76	2.9	3913	7	US-11-132-686-9	Sequence 9, Appli	382	74	2.8	201	6	US-10-793-626-1514	Sequence 1514, Ap
309	75.5	2.9	251	7	US-11-096-568A-20987	Sequence 20987, A	383	74	2.8	266	7	US-11-096-568A-25450	Sequence 25450, A
310	75.5	2.9	314	7	US-11-156-084-196	Sequence 196, App	384	74	2.8	347	7	US-11-087-099-11041	Sequence 11041, A
311	75.5	2.9	360	7	US-11-046-255A-4	Sequence 4, Appli	385	74	2.8	368	7	US-11-096-568A-32433	Sequence 32433, A
312	75.5	2.9	468	6	US-10-467-657-5696	Sequence 5696, Ap	386	74	2.8	369	7	US-11-055-822-32	Sequence 32, Appl
313	75.5	2.9	575	6	US-10-467-657-1456	Sequence 1456, Ap	387	74	2.8	369	7	US-11-096-568A-10384	Sequence 10384, A
314	75.5	2.9	603	7	US-11-096-568A-29091	Sequence 29091, A	388	74	2.8	373	7	US-11-082-389-248	Sequence 248, App
315	75.5	2.9	616	7	US-11-096-568A-29080	Sequence 29080, A	389	74	2.8	423	7	US-11-096-568A-32432	Sequence 32432, A
316	75.5	2.9	700	7	US-11-098-686-10793	Sequence 10793, A	390	74	2.8	502	7	US-11-087-099-7212	Sequence 7212, Ap
317	75.5	2.9	737	6	US-10-878-556A-25	Sequence 25, Appl	391	74	2.8	503	7	US-11-074-176-350	Sequence 350, App
318	75.5	2.9	857	6	US-10-613-744-11	Sequence 11, Appl	392	74	2.8	506	7	US-11-074-176-176	Sequence 176, App
319	75.5	2.9	1006	6	US-10-517-939-130	Sequence 130, App	393	74	2.8	511	7	US-11-072-512-2339	Sequence 2339, Ap
320	75.5	2.9	1051	6	US-10-330-773-313	Sequence 313, App	394	74	2.8	568	6	US-10-997-247-4	Sequence 4, Appli
322	75.5	2.9	1160	6	US-10-973-115B-234	Sequence 234, App	395	74	2.8	568	7	US-11-098-686-10729	Sequence 10729, A



396	74	2.8	578	7	US-11-096-568A-27923	Sequence 27923, A	470	73	2.8	1389	6	US-10-467-657-334	Sequence 334, App
397	74	2.8	594	7	US-11-096-568A-27922	Sequence 27922, A	471	73	2.8	1658	7	US-11-050-857-935	Sequence 935, App
398	74	2.8	659	6	US-10-467-657-6006	Sequence 6006, Ap	472	73	2.8	1673	7	US-11-050-857-936	Sequence 936, App
399	74	2.8	736	7	US-11-087-099-9655	Sequence 9655, Ap	473	73	2.8	1730	7	US-11-050-857-946	Sequence 946, App
400	74	2.8	745	7	US-11-087-099-5534	Sequence 5534, Ap	474	73	2.8	1786	7	US-11-196-400-3	Sequence 3, Appli
401	74	2.8	776	6	US-10-517-939-30	Sequence 30, Appl	475	73	2.8	2065	7	US-11-050-857-945	Sequence 945, App
402	74	2.8	780	6	US-10-501-035-375	Sequence 375, App	476	73	2.8	2067	7	US-11-050-857-944	Sequence 944, App
403	74	2.8	797	6	US-10-995-561-802	Sequence 802, App	477	73	2.8	2091	7	US-11-050-857-941	Sequence 941, App
404	74	2.8	873	7	US-11-087-099-7920	Sequence 7920, Ap	478	73	2.8	2110	7	US-11-050-857-937	Sequence 937, App
405	74	2.8	1032	6	US-10-467-657-3278	Sequence 3278, Ap	479	73	2.8	2201	7	US-11-050-857-933	Sequence 933, App
406	74	2.8	1098	7	US-11-072-512-2475	Sequence 2475, Ap	480	73	2.8	2201	7	US-11-050-857-1150	Sequence 1150, Ap
407	74	2.8	1177	7	US-11-115-639-23	Sequence 23, Appl	481	73	2.8	2293	7	US-11-050-857-934	Sequence 934, App
408	74	2.8	1177	7	US-11-115-639-29	Sequence 29, Appl	482	72.5	2.8	216	7	US-11-087-099-1000	Sequence 1000, Ap
409	74	2.8	1211	7	US-11-186-284-4	Sequence 4, Appli	483	72.5	2.8	246	7	US-11-087-099-863	Sequence 863, App
410	73.5	2.8	133	6	US-10-498-026-82	Sequence 82, Appl	484	72.5	2.8	281	7	US-11-087-099-8404	Sequence 8404, Ap
411	73.5	2.8	365	7	US-11-096-568A-32170	Sequence 32170, A	485	72.5	2.8	300	7	US-11-096-568A-3211	Sequence 3211, Ap
412	73.5	2.8	366	7	US-11-096-568A-32169	Sequence 32169, A	486	72.5	2.8	300	7	US-11-096-568A-3213	Sequence 3213, Ap
413	73.5	2.8	370	7	US-11-096-568A-32168	Sequence 32168, A	487	72.5	2.8	307	7	US-11-087-099-3841	Sequence 3841, Ap
414	73.5	2.8	372	7	US-11-087-099-7262	Sequence 7262, Ap	488	72.5	2.8	308	7	US-11-096-568A-3210	Sequence 3210, Ap
415	73.5	2.8	425	7	US-11-087-099-2294	Sequence 2294, Ap	489	72.5	2.8	350	7	US-11-096-568A-32434	Sequence 32434, A
416	73.5	2.8	437	7	US-11-087-099-8146	Sequence 8146, Ap	490	72.5	2.8	369	7	US-11-087-099-5887	Sequence 5887, Ap
418	73.5	2.8	478	6	US-10-973-115B-138	Sequence 138, App	491	72.5	2.8	384	7	US-11-129-143-77	Sequence 77, Appl
419	73.5	2.8	478	7	US-11-174-150-27	Sequence 27, Appl	492	72.5	2.8	388	7	US-11-087-099-1415	Sequence 1415, Ap
420	73.5	2.8	510	7	US-11-096-568A-5875	Sequence 5875, Ap	493	72.5	2.8	400	6	US-10-467-657-2702	Sequence 2702, Ap
421	73.5	2.8	513	6	US-10-485-517-160	Sequence 160, App	494	72.5	2.8	420	6	US-10-858-730-78	Sequence 78, Appl
422	73.5	2.8	538	7	US-11-087-099-2454	Sequence 2454, Ap	495	72.5	2.8	459	6	US-10-793-626-1246	Sequence 1246, Ap
423	73.5	2.8	541	7	US-11-096-568A-14917	Sequence 14917, A	496	72.5	2.8	459	6	US-10-793-626-2554	Sequence 2554, Ap
424	73.5	2.8	561	7	US-11-096-568A-5874	Sequence 5874, Ap	497	72.5	2.8	471	7	US-11-098-686-11229	Sequence 11229, A
425	73.5	2.8	585	6	US-10-793-626-2124	Sequence 2124, Ap	498	72.5	2.8	506	6	US-10-873-528-80	Sequence 80, Appl
426	73.5	2.8	613	7	US-11-096-568A-5873	Sequence 5873, Ap	499	72.5	2.8	516	7	US-11-096-568A-14918	Sequence 14918, A
427	73.5	2.8	661	7	US-11-072-512-2389	Sequence 2389, Ap	500	72.5	2.8	547	6	US-10-510-386-166	Sequence 166, App
428	73.5	2.8	1015	7	US-11-203-251A-82	Sequence 82, Appl	501	72.5	2.8	547	6	US-10-510-386-224	Sequence 224, App
429	73.5	2.8	1026	7	US-11-072-512-2509	Sequence 2509, Ap	502	72.5	2.8	548	7	US-11-119-769-3	Sequence 3, Appli
430	73.5	2.8	1037	7	US-11-203-251A-81	Sequence 81, Appl	503	72.5	2.8	627	6	US-10-467-657-5432	Sequence 5432, Ap
431	73.5	2.8	1112	7	US-11-096-568A-33821	Sequence 33821, A	504	72.5	2.8	680	7	US-11-096-568A-33439	Sequence 33439, A
432	73.5	2.8	1113	7	US-11-096-568A-33820	Sequence 33820, A	506	72.5	2.8	709	6	US-10-519-238-3	Sequence 3, Appli
433	73.5	2.8	1115	7	US-11-096-568A-33819	Sequence 33819, A	507	72.5	2.8	709	6	US-10-973-115B-202	Sequence 202, App
434	73.5	2.8	1140	6	US-10-858-730-208	Sequence 208, App	508	72.5	2.8	717	7	US-11-096-568A-33438	Sequence 33438, A
435	73.5	2.8	1177	7	US-11-115-639-25	Sequence 25, Appl	509	72.5	2.8	738	7	US-11-096-568A-33437	Sequence 33437, A
436	73.5	2.8	1366	7	US-11-169-041-174	Sequence 174, App	510	72.5	2.8	748	7	US-11-098-686-10734	Sequence 10734, A
437	73.5	2.8	2640	7	US-11-087-099-9331	Sequence 9331, Ap	511	72.5	2.8	749	7	US-11-098-686-10505	Sequence 10505, A
438	73.5	2.8	2712	7	US-11-004-399-1736	Sequence 1736, Ap	512	72.5	2.8	765	7	US-11-087-099-6242	Sequence 6242, Ap
439	73	2.8	249	6	US-10-793-626-2294	Sequence 2294, Ap	513	72.5	2.8	814	7	US-11-124-368A-186	Sequence 186, App
440	73	2.8	269	6	US-10-793-626-1538	Sequence 1538, Ap	514	72.5	2.8	893	7	US-11-087-099-3696	Sequence 3696, Ap
441	73	2.8	324	7	US-11-087-099-10913	Sequence 10913, A	515	72.5	2.8	922	7	US-11-072-512-2694	Sequence 2694, Ap
442	73	2.8	342	7	US-11-087-099-3375	Sequence 3375, Ap	516	72.5	2.8	952	6	US-10-330-773-709	Sequence 709, App
443	73	2.8	344	7	US-11-087-099-6649	Sequence 6649, Ap	517	72.5	2.8	1048	6	US-10-392-234A-14	Sequence 14, Appl
444	73	2.8	362	7	US-11-087-099-606	Sequence 606, App	518	72.5	2.8	1148	7	US-11-110-082-29	Sequence 29, Appl
445	73	2.8	372	7	US-11-096-568A-9495	Sequence 9495, Ap	519	72.5	2.8	1837	7	US-11-050-857-940	Sequence 940, App
446	73	2.8	378	7	US-11-096-568A-9494	Sequence 9494, Ap	520	72.5	2.8	1881	7	US-11-040-472-8	Sequence 8, Appli
447	73	2.8	379	7	US-11-096-568A-9493	Sequence 9493, Ap	521	72.5	2.8	2351	6	US-10-995-561-608	Sequence 608, App
448	73	2.8	389	7	US-11-096-568A-19737	Sequence 19737, A	522	72.5	2.8	2890	7	US-11-115-639-31	Sequence 31, Appl
449	73	2.8	396	7	US-11-096-568A-19736	Sequence 19736, A	523	72.5	2.8	2890	7	US-11-115-639-32	Sequence 32, Appl
450	73	2.8	398	7	US-11-087-099-10947	Sequence 10947, A	524	72.5	2.8	2890	7	US-11-115-639-33	Sequence 33, Appl
451	73	2.8	408	7	US-11-098-686-10559	Sequence 10559, A	525	72	2.7	205	7	US-11-238-936-8	Sequence 8, Appli
452	73	2.8	409	7	US-11-096-568A-19735	Sequence 19735, A	526	72	2.7	256	7	US-11-055-822-1140	Sequence 1140, Ap
453	73	2.8	448	7	US-11-087-099-10082	Sequence 10082, A	527	72	2.7	256	7	US-11-124-291-2	Sequence 2, Appli
454	73	2.8	482	7	US-11-098-686-11344	Sequence 11344, A	528	72	2.7	319	6	US-10-330-773-593	Sequence 593, App
455	73	2.8	665	7	US-11-087-099-1536	Sequence 1536, Ap	529	72	2.7	327	7	US-11-087-099-7741	Sequence 7741, Ap
456	73	2.8	680	6	US-10-467-657-2008	Sequence 2008, Ap	530	72	2.7	344	7	US-11-096-568A-6342	Sequence 6342, Ap
457	73	2.8	686	7	US-11-077-619-46	Sequence 46, Appl	531	72	2.7	352	7	US-11-131-263-38	Sequence 38, Appl
458	73	2.8	733	6	US-10-467-657-5858	Sequence 5858, Ap	532	72	2.7	362	7	US-11-087-099-9573	Sequence 9573, Ap
459	73	2.8	770	7	US-11-070-627-5	Sequence 5, Appli	533	72	2.7	381	7	US-11-087-099-6112	Sequence 6112, Ap
460	73	2.8	802	7	US-11-087-099-6978	Sequence 6978, Ap	534	72	2.7	421	7	US-11-055-822-658	Sequence 658, App
461	73	2.8	946	7	US-11-096-568A-29105	Sequence 29105, A	535	72	2.7	481	7	US-11-087-099-9582	Sequence 9582, Ap
462	73	2.8	959	7	US-11-096-568A-29104	Sequence 29104, A	536	72	2.7	511	7	US-11-055-822-698	Sequence 698, App
463	73	2.8	966	7	US-11-096-568A-29103	Sequence 29103, A	537	72	2.7	515	7	US-11-087-099-2320	Sequence 2320, Ap
464	73	2.8	1177	7	US-11-115-639-22	Sequence 22, Appl	538	72	2.7	586	7	US-11-072-512-3411	Sequence 3411, Ap
465	73	2.8	1177	7	US-11-115-639-24	Sequence 24, Appl	539	72	2.7	608	7	US-11-087-099-3204	Sequence 3204, Ap
466	73	2.8	1177	7	US-11-115-639-26	Sequence 26, Appl	540	72	2.7	691	7	US-11-096-568A-27660	Sequence 27660, A
467	73	2.8	1177	7	US-11-115-639-27	Sequence 27, Appl	541	72	2.7	718	7	US-11-096-568A-27659	Sequence 27659, A
468	73	2.8	1177	7	US-11-115-639-28	Sequence 28, Appl	542	72	2.7	739	7	US-11-096-568A-27658	Sequence 27658, A
469	73	2.8	1177	7	US-11-115-639-30	Sequence 30, Appl	543	72	2.7	750	7	US-11-072-512-2453	Sequence 2453, Ap

544	72	2.7	784	6	US-10-517-939-324	Sequence 324, App	618	71	2.7	461	7	US-11-087-099-2520	Sequence 2520, Ap
545	72	2.7	846	7	US-11-096-568A-30404	Sequence 30404, A	619	71	2.7	464	7	US-11-096-568A-10223	Sequence 10223, A
546	72	2.7	861	6	US-10-467-657-1286	Sequence 1286, Ap	620	71	2.7	466	7	US-11-087-099-1606	Sequence 1606, Ap
547	72	2.7	871	7	US-11-087-099-6053	Sequence 6053, Ap	621	71	2.7	469	7	US-11-096-568A-29082	Sequence 29082, A
548	72	2.7	873	7	US-11-096-568A-30403	Sequence 30403, A	622	71	2.7	478	7	US-11-096-568A-29092	Sequence 29092, A
549	72	2.7	1045	7	US-11-096-568A-30402	Sequence 30402, A	623	71	2.7	491	7	US-11-096-568A-29081	Sequence 29081, A
550	72	2.7	1084	6	US-10-964-313-2	Sequence 2, Appli	624	71	2.7	551	6	US-10-520-655-1	Sequence 1, Appli
551	72	2.7	1084	7	US-11-202-268-12	Sequence 12, Appl	625	71	2.7	555	6	US-10-821-234-1015	Sequence 1015, Ap
552	72	2.7	1097	6	US-10-501-035-285	Sequence 285, App	626	71	2.7	567	7	US-11-167-856-30	Sequence 30, Appl
553	72	2.7	1194	7	US-11-000-463-249	Sequence 249, App	627	71	2.7	602	6	US-10-493-909-51	Sequence 51, Appl
554	72	2.7	1458	7	US-11-096-274-2	Sequence 2, Appli	628	71	2.7	607	7	US-11-087-099-3733	Sequence 3733, Ap
555	72	2.7	2228	7	US-11-124-367A-270	Sequence 270, App	629	71	2.7	611	6	US-10-467-657-4656	Sequence 4656, Ap
556	72	2.7	3073	7	US-11-143-980-50	Sequence 50, Appl	630	71	2.7	629	7	US-11-232-406A-24	Sequence 24, Appl
557	72	2.7	3841	7	US-11-124-367A-272	Sequence 272, App	631	71	2.7	691	7	US-11-098-686-11189	Sequence 11189, A
558	71.5	2.7	131	6	US-10-498-026-75	Sequence 75, Appl	632	71	2.7	702	6	US-10-510-386-214	Sequence 214, App
559	71.5	2.7	200	7	US-11-087-099-8856	Sequence 8856, Ap	633	71	2.7	715	7	US-11-087-099-808	Sequence 808, App
560	71.5	2.7	214	7	US-11-072-512-3061	Sequence 3061, Ap	634	71	2.7	745	6	US-10-858-730-224	Sequence 224, App
561	71.5	2.7	246	7	US-11-096-568A-20912	Sequence 20912, A	635	71	2.7	745	7	US-11-055-822-226	Sequence 226, App
562	71.5	2.7	252	7	US-11-096-568A-6920	Sequence 6920, Ap	636	71	2.7	745	7	US-11-055-822-714	Sequence 714, App
563	71.5	2.7	261	7	US-11-096-568A-10852	Sequence 10852, A	637	71	2.7	745	7	US-11-055-822-756	Sequence 756, App
564	71.5	2.7	266	7	US-11-096-568A-10851	Sequence 10851, A	638	71	2.7	745	7	US-11-168-476-2	Sequence 2, Appli
565	71.5	2.7	299	7	US-11-096-568A-10850	Sequence 10850, A	639	71	2.7	751	7	US-11-114-906-8	Sequence 8, Appli
566	71.5	2.7	310	7	US-11-074-176-342	Sequence 342, App	640	71	2.7	761	6	US-10-517-939-36	Sequence 36, Appl
567	71.5	2.7	311	7	US-11-087-099-1905	Sequence 1905, Ap	641	71	2.7	764	7	US-11-114-906-6	Sequence 6, Appli
568	71.5	2.7	321	7	US-11-074-176-154	Sequence 154, App	642	71	2.7	765	7	US-11-087-099-3721	Sequence 3721, Ap
569	71.5	2.7	333	7	US-11-087-099-283	Sequence 283, App	643	71	2.7	765	7	US-11-087-099-4098	Sequence 4098, Ap
570	71.5	2.7	355	7	US-11-087-099-4821	Sequence 4821, Ap	644	71	2.7	765	7	US-11-087-099-11145	Sequence 11145, A
571	71.5	2.7	362	7	US-11-087-099-12235	Sequence 12235, A	645	71	2.7	776	7	US-11-114-906-24	Sequence 24, Appl
572	71.5	2.7	368	7	US-11-087-099-4023	Sequence 4023, Ap	646	71	2.7	789	7	US-11-114-906-22	Sequence 22, Appl
573	71.5	2.7	373	7	US-11-087-099-412	Sequence 412, App	647	71	2.7	800	7	US-11-087-099-6888	Sequence 6888, Ap
574	71.5	2.7	387	7	US-11-096-568A-26977	Sequence 26977, A	648	71	2.7	838	7	US-11-114-906-40	Sequence 40, Appl
575	71.5	2.7	400	7	US-11-111-239-12	Sequence 12, Appl	649	71	2.7	851	7	US-11-114-906-38	Sequence 38, Appl
576	71.5	2.7	405	7	US-11-087-099-3737	Sequence 3737, Ap	650	71	2.7	863	7	US-11-114-906-32	Sequence 32, Appl
577	71.5	2.7	409	7	US-11-096-568A-7898	Sequence 7898, Ap	651	71	2.7	864	7	US-11-114-906-4	Sequence 4, Appli
578	71.5	2.7	440	6	US-10-821-234-1330	Sequence 1330, Ap	652	71	2.7	870	7	US-11-114-906-2	Sequence 2, Appli
579	71.5	2.7	441	7	US-11-096-568A-25563	Sequence 25563, A	653	71	2.7	876	7	US-11-114-906-30	Sequence 30, Appl
580	71.5	2.7	443	7	US-11-096-568A-7897	Sequence 7897, Ap	654	71	2.7	889	7	US-11-114-906-20	Sequence 20, Appl
581	71.5	2.7	456	7	US-11-096-568A-7896	Sequence 7896, Ap	655	71	2.7	895	7	US-11-114-906-18	Sequence 18, Appl
582	71.5	2.7	460	7	US-11-096-568A-20827	Sequence 20827, A	656	71	2.7	901	7	US-11-072-512-2920	Sequence 2920, Ap
583	71.5	2.7	484	7	US-11-087-099-8314	Sequence 8314, Ap	657	71	2.7	908	6	US-10-467-657-1070	Sequence 1070, Ap
584	71.5	2.7	490	6	US-10-467-657-7280	Sequence 7280, Ap	658	71	2.7	911	6	US-10-858-730-9	Sequence 9, Appli
585	71.5	2.7	490	6	US-10-467-657-8158	Sequence 8158, Ap	659	71	2.7	951	7	US-11-114-906-36	Sequence 36, Appl
586	71.5	2.7	500	6	US-10-524-647-20	Sequence 20, Appl	660	71	2.7	957	7	US-11-114-906-34	Sequence 34, Appl
587	71.5	2.7	500	6	US-10-524-972-20	Sequence 20, Appl	661	71	2.7	959	6	US-10-453-372-1074	Sequence 1074, Ap
588	71.5	2.7	500	6	US-10-541-513-8	Sequence 8, Appli	662	71	2.7	976	7	US-11-114-906-28	Sequence 28, Appl
589	71.5	2.7	513	7	US-11-087-099-3462	Sequence 3462, Ap	663	71	2.7	982	7	US-11-114-906-26	Sequence 26, Appl
590	71.5	2.7	557	6	US-10-512-109-9	Sequence 9, Appli	664	71	2.7	989	6	US-10-821-234-975	Sequence 975, App
591	71.5	2.7	562	7	US-11-098-686-11416	Sequence 11416, A	665	71	2.7	1008	7	US-11-055-822-312	Sequence 312, App
592	71.5	2.7	641	7	US-11-090-617-690	Sequence 690, App	666	71	2.7	1024	7	US-11-145-631-2	Sequence 2, Appli
594	71.5	2.7	678	7	US-11-102-240-34	Sequence 34, Appl	667	71	2.7	1063	6	US-10-453-372-1066	Sequence 1066, Ap
595	71.5	2.7	678	7	US-11-103-195-34	Sequence 34, Appl	668	71	2.7	1070	7	US-11-000-463-721	Sequence 721, App
596	71.5	2.7	760	6	US-10-821-234-1141	Sequence 1141, Ap	669	71	2.7	1165	7	US-11-197-380-6	Sequence 6, Appli
597	71.5	2.7	770	7	US-11-024-959-358	Sequence 358, App	670	71	2.7	1183	7	US-11-115-639-15	Sequence 15, Appl
598	71.5	2.7	778	7	US-11-087-099-4345	Sequence 4345, Ap	671	71	2.7	1227	6	US-10-793-626-96	Sequence 96, Appl
599	71.5	2.7	869	7	US-11-087-099-4580	Sequence 4580, Ap	672	71	2.7	1316	7	US-11-091-643-4	Sequence 4, Appli
600	71.5	2.7	886	6	US-10-821-234-1390	Sequence 1390, Ap	673	71	2.7	1336	6	US-10-912-971-10	Sequence 10, Appl
601	71.5	2.7	926	7	US-11-232-405A-34	Sequence 34, Appl	674	71	2.7	3003	6	US-10-453-372-1080	Sequence 1080, Ap
602	71.5	2.7	980	7	US-11-064-246-10	Sequence 10, Appl	675	71	2.7	3361	6	US-10-453-372-1082	Sequence 1082, Ap
603	71.5	2.7	980	7	US-11-169-041-141	Sequence 141, App	676	70.5	2.7	188	6	US-10-510-413-4	Sequence 4, Appli
604	71.5	2.7	1089	7	US-11-087-099-7653	Sequence 7653, Ap	677	70.5	2.7	189	6	US-10-510-413-3	Sequence 3, Appli
605	71.5	2.7	1124	7	US-11-087-099-4425	Sequence 4425, Ap	678	70.5	2.7	244	7	US-11-087-099-11631	Sequence 11631, A
606	71.5	2.7	1244	6	US-10-531-036-36	Sequence 36, Appl	679	70.5	2.7	325	6	US-10-873-528-141	Sequence 141, App
607	71.5	2.7	1285	7	US-11-206-071-2	Sequence 2, Appli	680	70.5	2.7	325	6	US-10-510-413-2	Sequence 2, Appli
608	71.5	2.7	2244	7	US-11-131-263-41	Sequence 41, Appl	681	70.5	2.7	326	6	US-10-510-413-1	Sequence 1, Appli
609	71	2.7	307	6	US-10-878-556A-21	Sequence 21, Appl	682	70.5	2.7	360	7	US-11-096-568A-23854	Sequence 23854, A
610	71	2.7	339	6	US-10-467-657-4318	Sequence 4318, Ap	683	70.5	2.7	364	7	US-11-087-099-11525	Sequence 11525, A
611	71	2.7	389	7	US-11-207-626A-39	Sequence 39, Appl	684	70.5	2.7	368	6	US-10-793-626-742	Sequence 742, App
612	71	2.7	414	7	US-11-096-568A-10224	Sequence 10224, A	685	70.5	2.7	370	7	US-11-127-817-22	Sequence 22, Appl
613	71	2.7	426	7	US-11-031-206-160	Sequence 160, App	686	70.5	2.7	372	7	US-11-096-568A-1609	Sequence 1609, Ap
614	71	2.7	437	6	US-10-454-437-84	Sequence 84, Appl	687	70.5	2.7	380	7	US-11-096-568A-23853	Sequence 23853, A
615	71	2.7	444	7	US-11-096-568A-8056	Sequence 8056, Ap	688	70.5	2.7	404	6	US-10-793-626-1130	Sequence 1130, Ap
616	71	2.7	448	7	US-11-096-568A-8055	Sequence 8055, Ap	689	70.5	2.7	423	6	US-10-467-657-6536	Sequence 6536, Ap
617	71	2.7	456	7	US-11-096-568A-29093	Sequence 29093, A	690	70.5	2.7	456	7	US-11-087-099-11920	Sequence 11920, A



691	70.5	2.7	462	7	US-11-096-568A-25994	Sequence 25994, A	764	70	2.7	715	6	US-10-467-657-3672	Sequence 3672, Ap
692	70.5	2.7	470	7	US-11-096-568A-25993	Sequence 25993, A	765	70	2.7	715	7	US-11-089-551A-47	Sequence 47, Appl
693	70.5	2.7	479	7	US-11-096-568A-6801	Sequence 6801, Ap	766	70	2.7	738	6	US-10-523-038-39	Sequence 39, Appl
694	70.5	2.7	490	7	US-11-096-568A-6800	Sequence 6800, Ap	767	70	2.7	792	7	US-11-108-172-1127	Sequence 1127, Ap
695	70.5	2.7	514	7	US-11-096-568A-6799	Sequence 6799, Ap	768	70	2.7	832	7	US-11-098-686-10182	Sequence 10182, A
696	70.5	2.7	516	7	US-11-096-568A-25273	Sequence 25273, A	769	70	2.7	847	7	US-11-087-099-1706	Sequence 1706, Ap
697	70.5	2.7	517	7	US-11-096-568A-25992	Sequence 25992, A	770	70	2.7	1073	6	US-10-467-657-5230	Sequence 5230, Ap
698	70.5	2.7	541	7	US-11-010-239-95	Sequence 95, Appl	771	70	2.7	1147	6	US-10-615-668-5	Sequence 5, Appl
699	70.5	2.7	544	7	US-11-096-568A-1608	Sequence 1608, Ap	772	70	2.7	1208	7	US-11-115-639-46	Sequence 46, Appl
700	70.5	2.7	549	7	US-11-096-568A-4707	Sequence 4707, Ap	773	70	2.7	1208	7	US-11-115-639-47	Sequence 47, Appl
701	70.5	2.7	557	7	US-11-096-568A-4706	Sequence 4706, Ap	774	70	2.7	1208	7	US-11-115-639-48	Sequence 48, Appl
702	70.5	2.7	566	7	US-11-072-512-3580	Sequence 3580, Ap	775	70	2.7	1616	6	US-10-821-234-1497	Sequence 1497, Ap
703	70.5	2.7	585	7	US-11-096-568A-4705	Sequence 4705, Ap	776	70	2.7	1730	7	US-11-192-967-4	Sequence 4, Appl
704	70.5	2.7	588	7	US-11-096-568A-1607	Sequence 1607, Ap	777	70	2.7	1730	7	US-11-193-715-4	Sequence 4, Appl
705	70.5	2.7	623	6	US-10-793-626-1068	Sequence 1068, Ap	778	70	2.7	1804	6	US-10-513-786-2	Sequence 2, Appl
706	70.5	2.7	638	7	US-11-077-619-28	Sequence 28, Appl	779	70	2.7	2455	7	US-11-186-999-14	Sequence 14, Appl
707	70.5	2.7	664	7	US-11-124-367A-439	Sequence 439, App	780	70	2.7	2455	7	US-11-186-999-16	Sequence 16, Appl
708	70.5	2.7	667	7	US-11-124-367A-440	Sequence 440, App	781	70	2.7	2456	7	US-11-186-999-8	Sequence 8, Appl
709	70.5	2.7	688	6	US-10-878-556A-132	Sequence 132, App	782	70	2.7	2456	7	US-11-186-999-10	Sequence 10, Appl
710	70.5	2.7	737	7	US-11-152-366-28	Sequence 28, Appl	783	70	2.7	3704	6	US-10-513-786-1	Sequence 1, Appl
711	70.5	2.7	748	7	US-11-072-512-2336	Sequence 2336, Ap	784	70	2.7	3716	7	US-11-052-554A-141	Sequence 141, App
712	70.5	2.7	760	6	US-10-858-730-76	Sequence 76, Appl	785	69.5	2.6	256	7	US-11-096-568A-29322	Sequence 29322, A
713	70.5	2.7	763	7	US-11-072-512-2512	Sequence 2512, Ap	786	69.5	2.6	280	6	US-10-000-997-49	Sequence 49, Appl
714	70.5	2.7	837	7	US-11-087-099-9370	Sequence 9370, Ap	787	69.5	2.6	303	7	US-11-096-568A-29321	Sequence 29321, A
715	70.5	2.7	901	6	US-10-793-626-342	Sequence 342, App	788	69.5	2.6	304	7	US-11-096-568A-29320	Sequence 29320, A
716	70.5	2.7	1001	6	US-10-467-962B-81	Sequence 81, Appl	789	69.5	2.6	321	6	US-10-467-657-216	Sequence 216, App
717	70.5	2.7	1183	7	US-11-115-639-13	Sequence 13, Appl	790	69.5	2.6	321	6	US-10-467-657-7912	Sequence 7912, Ap
718	70.5	2.7	1390	6	US-10-957-351-1	Sequence 1, Appl	791	69.5	2.6	344	7	US-11-096-568A-10385	Sequence 10385, A
719	70.5	2.7	1408	7	US-11-072-175-186	Sequence 186, App	792	69.5	2.6	357	7	US-11-087-099-9742	Sequence 9742, Ap
720	70.5	2.7	1700	6	US-10-453-372-398	Sequence 398, App	793	69.5	2.6	367	7	US-11-087-099-6824	Sequence 6824, Ap
721	70.5	2.7	1700	6	US-10-453-372-412	Sequence 412, App	794	69.5	2.6	367	7	US-11-096-568A-4296	Sequence 4296, Ap
722	70.5	2.7	1700	6	US-10-453-372-414	Sequence 414, App	795	69.5	2.6	392	6	US-10-793-626-2794	Sequence 2794, Ap
723	70.5	2.7	1700	6	US-10-453-372-416	Sequence 416, App	796	69.5	2.6	392	6	US-10-793-626-2874	Sequence 2874, Ap
724	70.5	2.7	1700	6	US-10-453-372-418	Sequence 418, App	797	69.5	2.6	400	7	US-11-232-405A-26	Sequence 26, Appl
725	70.5	2.7	2314	7	US-11-097-728-2	Sequence 2, Appl	798	69.5	2.6	400	7	US-11-087-099-2943	Sequence 2943, Ap
726	70.5	2.7	2353	7	US-11-097-728-6	Sequence 6, Appl	799	69.5	2.6	400	7	US-11-087-099-3427	Sequence 3427, Ap
727	70	2.7	246	7	US-11-055-822-382	Sequence 382, App	800	69.5	2.6	407	7	US-11-096-568A-11540	Sequence 11540, A
728	70	2.7	265	7	US-11-077-619-124	Sequence 124, App	801	69.5	2.6	437	7	US-11-096-568A-11539	Sequence 11539, A
729	70	2.7	266	6	US-10-995-561-544	Sequence 544, App	802	69.5	2.6	438	6	US-10-873-528-48	Sequence 48, Appl
730	70	2.7	275	6	US-10-330-773-979	Sequence 979, App	803	69.5	2.6	446	7	US-11-112-882-25	Sequence 25, Appl
731	70	2.7	302	7	US-11-112-882-2	Sequence 2, Appl	804	69.5	2.6	446	7	US-11-146-428-52	Sequence 52, Appl
732	70	2.7	315	7	US-11-096-568A-23470	Sequence 23470, A	805	69.5	2.6	454	6	US-10-511-989-176	Sequence 176, App
733	70	2.7	322	7	US-11-096-568A-3061	Sequence 3061, Ap	806	69.5	2.6	460	6	US-10-467-657-3136	Sequence 3136, Ap
734	70	2.7	326	6	US-10-485-517-306	Sequence 306, App	807	69.5	2.6	460	7	US-11-096-568A-5680	Sequence 5680, Ap
735	70	2.7	330	7	US-11-074-176-174	Sequence 174, App	808	69.5	2.6	471	7	US-11-096-568A-31458	Sequence 31458, A
736	70	2.7	346	7	US-11-087-099-9022	Sequence 9022, Ap	809	69.5	2.6	474	7	US-11-096-568A-31452	Sequence 452, App
737	70	2.7	351	7	US-11-096-568A-19772	Sequence 19772, A	811	69.5	2.6	477	6	US-10-973-115B-452	Sequence 134, App
738	70	2.7	361	7	US-11-129-143-60	Sequence 60, Appl	812	69.5	2.6	479	6	US-10-055-877-134	Sequence 134, App
739	70	2.7	365	7	US-11-031-206-164	Sequence 164, App	813	69.5	2.6	480	7	US-11-096-568A-5679	Sequence 5679, Ap
740	70	2.7	367	7	US-11-096-568A-3060	Sequence 3060, Ap	814	69.5	2.6	494	7	US-11-087-099-5764	Sequence 5764, Ap
741	70	2.7	368	7	US-11-096-568A-22315	Sequence 22315, A	815	69.5	2.6	494	7	US-11-098-686-10471	Sequence 10471, A
742	70	2.7	372	7	US-11-096-568A-3059	Sequence 3059, Ap	816	69.5	2.6	560	7	US-11-096-568A-31886	Sequence 31886, A
743	70	2.7	372	7	US-11-096-568A-3062	Sequence 3062, Ap	817	69.5	2.6	585	7	US-11-096-568A-31885	Sequence 31885, A
744	70	2.7	392	7	US-11-096-568A-22314	Sequence 22314, A	818	69.5	2.6	611	7	US-11-087-099-7129	Sequence 7129, Ap
745	70	2.7	401	7	US-11-096-568A-19771	Sequence 19771, A	819	69.5	2.6	619	7	US-11-087-099-7129	Sequence 29310, A
746	70	2.7	420	6	US-10-520-820-14	Sequence 14, Appl	820	69.5	2.6	624	7	US-11-096-568A-29649	Sequence 29649, A
747	70	2.7	422	7	US-11-096-568A-19770	Sequence 19770, A	821	69.5	2.6	624	7	US-11-096-568A-29649	Sequence 29309, A
748	70	2.7	424	7	US-11-096-568A-3577	Sequence 3577, Ap	822	69.5	2.6	658	7	US-11-096-568A-29648	Sequence 29648, A
749	70	2.7	427	6	US-10-513-639-20	Sequence 20, Appl	823	69.5	2.6	672	7	US-11-096-568A-30267	Sequence 30267, A
750	70	2.7	438	6	US-10-510-386-18	Sequence 18, Appl	824	69.5	2.6	692	7	US-11-096-568A-29308	Sequence 29308, A
751	70	2.7	449	7	US-11-096-568A-22313	Sequence 22313, A	825	69.5	2.6	739	7	US-11-009-063-26	Sequence 26, Appl
752	70	2.7	480	6	US-10-821-234-886	Sequence 886, App	826	69.5	2.6	739	7	US-11-009-063-31	Sequence 31, Appl
753	70	2.7	480	7	US-11-096-568A-6010	Sequence 6010, Ap	827	69.5	2.6	750	7	US-11-096-568A-34290	Sequence 34290, A
754	70	2.7	484	7	US-11-096-568A-6009	Sequence 6009, Ap	828	69.5	2.6	770	7	US-11-096-568A-30266	Sequence 30266, A
755	70	2.7	485	6	US-10-055-877-133	Sequence 133, App	829	69.5	2.6	791	7	US-11-072-512-3453	Sequence 3453, Ap
756	70	2.7	492	7	US-11-037-829A-12	Sequence 12, Appl	830	69.5	2.6	797	7	US-11-096-568A-34289	Sequence 34289, A
757	70	2.7	494	7	US-11-087-099-3900	Sequence 3900, Ap	831	69.5	2.6	819	7	US-11-050-857-854	Sequence 854, App
758	70	2.7	536	7	US-11-096-568A-7210	Sequence 7210, Ap	832	69.5	2.6	830	7	US-11-096-568A-30265	Sequence 30265, A
759	70	2.7	582	7	US-11-096-568A-24623	Sequence 24623, A	833	69.5	2.6	831	7	US-11-096-568A-34288	Sequence 34288, A
760	70	2.7	611	7	US-11-082-389-436	Sequence 436, App	834	69.5	2.6	842	7	US-11-096-568A-31636	Sequence 31636, A
761	70	2.7	669	7	US-11-072-512-2373	Sequence 2373, Ap	835	69.5	2.6	850	7	US-11-096-568A-31635	Sequence 31635, A
762	70	2.7	677	7	US-11-087-099-926	Sequence 926, App	836	69.5	2.6	875	7	US-11-096-568A-30864	Sequence 30864, A
763	70	2.7	715	6	US-10-467-657-70	Sequence 70, Appl	837	69.5	2.6	897	7	US-11-096-568A-31634	Sequence 31634, A



838	69.5	2.6	936	7	US-11-050-857-853	Sequence 853, App	911	68.5	2.6	307	5	US-09-978-360A-693	Sequence 693, App
839	69.5	2.6	948	6	US-10-485-517-131	Sequence 131, App	912	68.5	2.6	310	7	US-11-087-099-11274	Sequence 11274, A
840	69.5	2.6	953	7	US-11-096-568A-29690	Sequence 29690, A	913	68.5	2.6	334	7	US-11-099-691-11	Sequence 11, Appl
841	69.5	2.6	971	7	US-11-096-568A-30863	Sequence 30863, A	914	68.5	2.6	338	7	US-11-098-686-10876	Sequence 10876, A
842	69.5	2.6	994	7	US-11-050-857-848	Sequence 848, App	915	68.5	2.6	341	6	US-10-793-626-3202	Sequence 3202, Ap
843	69.5	2.6	1009	7	US-11-050-857-852	Sequence 852, App	916	68.5	2.6	357	7	US-11-120-308-188	Sequence 188, App
844	69.5	2.6	1017	7	US-11-050-857-851	Sequence 851, App	917	68.5	2.6	360	7	US-11-087-099-11236	Sequence 11236, A
845	69.5	2.6	1021	7	US-11-050-857-847	Sequence 847, App	918	68.5	2.6	373	7	US-11-087-099-1660	Sequence 1660, Ap
846	69.5	2.6	1028	7	US-11-096-568A-29689	Sequence 29689, A	919	68.5	2.6	373	7	US-11-087-099-5200	Sequence 5200, Ap
847	69.5	2.6	1037	7	US-11-096-568A-29688	Sequence 29688, A	920	68.5	2.6	376	7	US-11-087-099-9137	Sequence 9137, Ap
848	69.5	2.6	1041	7	US-11-096-568A-30862	Sequence 30862, A	921	68.5	2.6	395	6	US-10-467-657-1950	Sequence 1950, Ap
849	69.5	2.6	1065	7	US-11-050-857-845	Sequence 845, App	922	68.5	2.6	398	7	US-11-096-568A-5010	Sequence 5010, Ap
850	69.5	2.6	1065	7	US-11-050-857-846	Sequence 846, App	923	68.5	2.6	400	6	US-10-525-710-10	Sequence 10, Appl
851	69.5	2.6	1094	7	US-11-050-857-849	Sequence 849, App	924	68.5	2.6	404	6	US-10-467-657-4274	Sequence 4274, Ap
852	69.5	2.6	1451	7	US-10-510-941-8	Sequence 1, Appli	925	68.5	2.6	419	7	US-11-096-568A-6011	Sequence 6011, Ap
853	69.5	2.6	2385	6	US-10-876-947-6	Sequence 8, Appli	926	68.5	2.6	423	7	US-11-096-568A-7211	Sequence 7211, Ap
854	69.5	2.6	2671	6	US-10-876-947-6	Sequence 6, Appli	927	68.5	2.6	424	7	US-11-137-850-7	Sequence 7, Appli
855	69.5	2.6	7102	7	US-11-143-980-48	Sequence 48, Appl	928	68.5	2.6	424	7	US-11-137-850-9	Sequence 9, Appli
856	69	2.6	189	7	US-11-100-183-61	Sequence 61, Appl	929	68.5	2.6	424	7	US-11-096-568A-5009	Sequence 5009, Ap
857	69	2.6	258	7	US-11-087-099-10458	Sequence 10458, A	930	68.5	2.6	430	7	US-11-096-568A-29788	Sequence 29788, A
858	69	2.6	261	7	US-11-087-099-12008	Sequence 12008, A	931	68.5	2.6	432	7	US-11-096-568A-5008	Sequence 5008, Ap
859	69	2.6	278	7	US-11-098-686-10534	Sequence 10534, A	932	68.5	2.6	434	7	US-11-168-637-10	Sequence 10, Appl
860	69	2.6	292	7	US-11-096-568A-8710	Sequence 8710, Ap	933	68.5	2.6	441	6	US-10-055-877-135	Sequence 135, App
861	69	2.6	297	6	US-10-793-626-2634	Sequence 2634, Ap	934	68.5	2.6	449	7	US-11-096-568A-5165	Sequence 5165, Ap
862	69	2.6	310	7	US-11-010-239-97	Sequence 97, Appl	935	68.5	2.6	457	7	US-11-096-568A-8445	Sequence 8445, Ap
863	69	2.6	315	6	US-10-878-556A-178	Sequence 178, App	936	68.5	2.6	457	7	US-11-096-568A-29787	Sequence 29787, A
864	69	2.6	323	7	US-11-096-568A-8709	Sequence 8709, Ap	937	68.5	2.6	482	7	US-11-096-568A-8444	Sequence 8444, Ap
865	69	2.6	330	7	US-11-087-099-9762	Sequence 9762, Ap	938	68.5	2.6	488	7	US-11-194-246-325	Sequence 325, App
866	69	2.6	333	6	US-10-821-234-1036	Sequence 1036, Ap	939	68.5	2.6	488	7	US-11-087-099-303	Sequence 303, App
867	69	2.6	336	6	US-10-873-528-150	Sequence 150, App	940	68.5	2.6	514	6	US-10-793-626-2682	Sequence 2682, Ap
868	69	2.6	347	7	US-11-087-099-1882	Sequence 1882, Ap	941	68.5	2.6	521	6	US-10-793-626-1172	Sequence 1172, Ap
869	69	2.6	353	7	US-11-096-568A-31346	Sequence 31346, A	942	68.5	2.6	523	7	US-11-096-568A-28032	Sequence 28032, A
870	69	2.6	359	7	US-11-087-099-6902	Sequence 6902, Ap	943	68.5	2.6	525	6	US-10-467-657-5462	Sequence 5462, Ap
871	69	2.6	364	7	US-11-087-099-11668	Sequence 11668, A	944	68.5	2.6	539	7	US-11-096-568A-28031	Sequence 28031, A
872	69	2.6	367	7	US-11-087-099-6821	Sequence 6821, Ap	945	68.5	2.6	554	7	US-11-096-568A-29786	Sequence 29786, A
873	69	2.6	373	7	US-11-087-099-7971	Sequence 7971, Ap	946	68.5	2.6	563	6	US-10-878-556A-135	Sequence 135, App
874	69	2.6	376	7	US-11-098-686-10379	Sequence 10379, A	947	68.5	2.6	563	7	US-11-072-175-241	Sequence 241, App
875	69	2.6	418	6	US-10-793-626-1288	Sequence 1288, Ap	948	68.5	2.6	603	7	US-11-087-099-1182	Sequence 1182, Ap
876	69	2.6	453	7	US-11-087-099-2716	Sequence 2716, Ap	949	68.5	2.6	619	6	US-10-986-553-2	Sequence 2, Appli
877	69	2.6	467	7	US-11-096-568A-12878	Sequence 12878, A	950	68.5	2.6	637	6	US-10-873-528-53	Sequence 53, Appl
878	69	2.6	470	6	US-10-793-626-1814	Sequence 1814, Ap	951	68.5	2.6	657	7	US-11-096-568A-28030	Sequence 28030, A
879	69	2.6	490	7	US-11-087-099-9104	Sequence 9104, Ap	952	68.5	2.6	692	7	US-11-052-554A-213	Sequence 213, App
880	69	2.6	492	7	US-11-072-512-3704	Sequence 3704, Ap	953	68.5	2.6	735	7	US-11-087-099-9167	Sequence 9167, Ap
881	69	2.6	493	6	US-10-995-561-611	Sequence 611, App	954	68.5	2.6	751	6	US-10-467-657-1418	Sequence 1418, Ap
882	69	2.6	500	7	US-11-264-026-2	Sequence 2, Appli	955	68.5	2.6	759	6	US-10-858-730-75	Sequence 75, Appl
883	69	2.6	502	7	US-11-087-099-3575	Sequence 3575, Ap	956	68.5	2.6	787	7	US-11-154-227-110	Sequence 110, App
884	69	2.6	507	7	US-11-033-039-96	Sequence 96, Appl	957	68.5	2.6	817	7	US-11-098-686-11041	Sequence 11041, A
885	69	2.6	519	7	US-11-096-568A-12877	Sequence 12877, A	958	68.5	2.6	821	6	US-10-912-580-9	Sequence 9, Appli
886	69	2.6	521	7	US-11-096-568A-12876	Sequence 12876, A	959	68.5	2.6	821	6	US-10-912-582-3	Sequence 3, Appli
887	69	2.6	527	7	US-11-010-239-83	Sequence 83, Appl	960	68.5	2.6	821	7	US-11-050-857-964	Sequence 964, App
888	69	2.6	533	7	US-11-096-568A-19881	Sequence 19881, A	961	68.5	2.6	821	7	US-11-043-806-484	Sequence 484, App
889	69	2.6	579	6	US-11-096-568A-19880	Sequence 19880, A	962	68.5	2.6	879	7	US-11-098-686-10290	Sequence 10290, A
890	69	2.6	611	6	US-10-330-773-852	Sequence 852, App	963	68.5	2.6	921	6	US-10-880-144-2	Sequence 2, Appli
891	69	2.6	615	7	US-11-172-145-6	Sequence 6, Appli	964	68.5	2.6	1183	7	US-11-115-639-18	Sequence 18, Appl
892	69	2.6	617	7	US-11-172-145-8	Sequence 8, Appli	965	68.5	2.6	1453	7	US-11-096-568A-30749	Sequence 30749, A
893	69	2.6	656	7	US-11-096-568A-12827	Sequence 12827, A	966	68.5	2.6	1467	6	US-10-507-956-1	Sequence 1, Appli
894	69	2.6	670	7	US-11-096-568A-12826	Sequence 12826, A	967	68.5	2.6	1555	7	US-11-096-568A-30748	Sequence 30748, A
895	69	2.6	690	7	US-11-052-554A-99	Sequence 99, Appl	968	68.5	2.6	1556	7	US-11-096-568A-30747	Sequence 30747, A
896	69	2.6	706	7	US-11-096-568A-31978	Sequence 31978, A	969	68.5	2.6	2432	6	US-10-821-234-899	Sequence 899, App
897	69	2.6	710	7	US-11-151-601-23	Sequence 23, Appl	970	68.5	2.6	2472	7	US-11-203-806A-2	Sequence 2, Appli
898	69	2.6	714	7	US-11-096-568A-31977	Sequence 31977, A	971	68.5	2.6	2483	7	US-11-186-999-2	Sequence 2, Appli
899	69	2.6	715	7	US-11-150-845-14	Sequence 14, Appl	972	68	2.6	176	7	US-11-096-568A-11407	Sequence 11407, A
900	69	2.6	715	7	US-11-150-847-14	Sequence 14, Appl	973	68	2.6	198	7	US-11-096-568A-26738	Sequence 26738, A
901	69	2.6	752	6	US-10-793-626-348	Sequence 348, App	974	68	2.6	220	7	US-11-096-568A-868	Sequence 868, App
902	69	2.6	803	7	US-11-098-686-10461	Sequence 10461, A	975	68	2.6	256	7	US-11-087-099-10879	Sequence 10879, A
903	69	2.6	813	7	US-11-098-686-10839	Sequence 10839, A	976	68	2.6	292	7	US-11-087-099-5053	Sequence 5053, Ap
904	69	2.6	820	7	US-11-098-686-11029	Sequence 11029, A	977	68	2.6	304	6	US-10-793-626-1472	Sequence 1472, Ap
905	69	2.6	926	7	US-11-096-568A-31607	Sequence 31607, A	979	68	2.6	328	6	US-10-973-115B-326	Sequence 326, App
906	69	2.6	1065	6	US-10-793-626-1212	Sequence 1212, Ap	980	68	2.6	352	7	US-11-087-099-11864	Sequence 11864, A
907	69	2.6	1122	7	US-11-087-099-9404	Sequence 9404, Ap	981	68	2.6	365	7	US-11-087-099-2234	Sequence 2234, Ap
908	68.5	2.6	167	7	US-11-096-568A-22220	Sequence 22220, A	982	68	2.6	371	6	US-10-467-657-1926	Sequence 1926, Ap
909	68.5	2.6	221	7	US-11-087-099-5638	Sequence 5638, Ap	983	68	2.6	398	7	US-11-096-568A-26114	Sequence 26114, A
910	68.5	2.6	228	7	US-11-096-568A-21545	Sequence 21545, A	984	68	2.6	424	7	US-11-024-959-357	Sequence 357, App

985	68	2.6	425	6	US-10-995-561-616	Sequence 616, App	1058	67.5	2.6	484	7	US-11-096-568A-10302	Sequence 10302, A
986	68	2.6	428	7	US-11-074-176-344	Sequence 344, App	1059	67.5	2.6	495	7	US-11-096-568A-7940	Sequence 7940, Ap
987	68	2.6	433	7	US-11-074-176-162	Sequence 162, App	1060	67.5	2.6	562	7	US-11-072-512-2003	Sequence 2003, Ap
988	68	2.6	437	7	US-11-087-099-8579	Sequence 8579, Ap	1061	67.5	2.6	565	6	US-10-055-877-228	Sequence 228, App
989	68	2.6	453	7	US-11-098-686-10358	Sequence 10358, A	1062	67.5	2.6	652	7	US-11-096-568A-18260	Sequence 18260, A
990	68	2.6	454	7	US-11-096-568A-26113	Sequence 26113, A	1063	67.5	2.6	695	6	US-10-363-924-2	Sequence 2, Appli
991	68	2.6	456	7	US-11-072-512-1996	Sequence 1996, Ap	1064	67.5	2.6	732	6	US-10-954-468-51	Sequence 51, Appl
992	68	2.6	463	6	US-10-755-092-25	Sequence 25, Appl	1065	67.5	2.6	773	7	US-11-024-959-341	Sequence 341, App
993	68	2.6	467	7	US-11-090-439-33	Sequence 33, Appl	1066	67.5	2.6	778	7	US-11-096-568A-29888	Sequence 29888, A
994	68	2.6	467	7	US-11-096-568A-20365	Sequence 20365, A	1067	67.5	2.6	791	6	US-10-972-053-4	Sequence 4, Appli
995	68	2.6	473	7	US-11-087-099-10299	Sequence 10299, A	1068	67.5	2.6	803	7	US-11-096-568A-29887	Sequence 29887, A
996	68	2.6	474	6	US-10-523-503-20	Sequence 20, Appl	1069	67.5	2.6	813	6	US-10-509-950-1	Sequence 1, Appli
997	68	2.6	500	7	US-11-096-568A-27420	Sequence 27420, A	1070	67.5	2.6	843	6	US-10-501-035-362	Sequence 362, App
998	68	2.6	514	7	US-11-125-295-2	Sequence 2, Appli	1071	67.5	2.6	846	6	US-10-517-939-90	Sequence 90, Appl
999	68	2.6	514	7	US-11-072-512-3509	Sequence 3509, Ap	1072	67.5	2.6	879	7	US-11-124-367A-329	Sequence 329, App
1000	68	2.6	518	7	US-11-096-568A-17114	Sequence 17114, A	1073	67.5	2.6	884	6	US-10-878-556A-9	Sequence 9, Appli
1001	68	2.6	539	7	US-11-096-568A-27419	Sequence 27419, A	1074	67.5	2.6	912	7	US-11-124-367A-328	Sequence 328, App
1002	68	2.6	587	7	US-11-096-568A-27418	Sequence 27418, A	1075	67.5	2.6	934	6	US-10-858-730-8	Sequence 8, Appli
1003	68	2.6	639	7	US-11-232-406A-20	Sequence 20, Appl	1076	67.5	2.6	935	6	US-10-995-561-1012	Sequence 1012, Ap
1004	68	2.6	690	7	US-11-052-554A-232	Sequence 232, App	1077	67.5	2.6	935	6	US-10-995-561-1013	Sequence 1013, Ap
1005	68	2.6	773	7	US-11-124-367A-505	Sequence 505, App	1078	67.5	2.6	970	6	US-10-954-468-52	Sequence 52, Appl
1006	68	2.6	773	7	US-11-124-367A-506	Sequence 506, App	1079	67.5	2.6	974	6	US-10-821-234-1152	Sequence 1152, Ap
1007	68	2.6	792	7	US-11-098-686-10439	Sequence 10439, A	1080	67.5	2.6	1007	6	US-10-329-258-23	Sequence 23, Appl
1008	68	2.6	821	7	US-11-087-227-90	Sequence 90, Appl	1081	67.5	2.6	1027	6	US-10-793-626-3106	Sequence 3106, Ap
1009	68	2.6	825	7	US-11-087-099-1341	Sequence 1341, Ap	1082	67.5	2.6	1033	7	US-11-087-099-8833	Sequence 8833, Ap
1010	68	2.6	865	7	US-11-094-519A-41	Sequence 41, Appl	1083	67.5	2.6	1073	7	US-11-098-686-10413	Sequence 10413, A
1011	68	2.6	869	7	US-11-087-099-2292	Sequence 2292, Ap	1084	67.5	2.6	1151	7	US-11-128-420-10	Sequence 10, Appl
1012	68	2.6	877	7	US-11-074-176-322	Sequence 322, App	1085	67.5	2.6	1178	7	US-11-115-639-7	Sequence 7, Appli
1013	68	2.6	883	7	US-11-074-176-88	Sequence 88, Appl	1086	67.5	2.6	1178	7	US-11-115-639-9	Sequence 9, Appli
1014	68	2.6	1046	7	US-11-120-308-186	Sequence 186, App	1087	67.5	2.6	1178	7	US-11-115-639-10	Sequence 10, Appl
1015	68	2.6	1822	7	US-11-169-041-193	Sequence 193, App	1088	67.5	2.6	1178	7	US-11-115-639-11	Sequence 11, Appl
1016	68	2.6	1928	6	US-10-480-330-30	Sequence 30, Appl	1089	67.5	2.6	1178	7	US-11-115-639-12	Sequence 12, Appl
1017	68	2.6	1966	6	US-10-480-330-2	Sequence 2, Appli	1090	67.5	2.6	1183	7	US-11-115-639-14	Sequence 14, Appl
1018	68	2.6	1966	6	US-10-480-330-6	Sequence 6, Appli	1091	67.5	2.6	2801	6	US-10-330-773-630	Sequence 630, App
1019	68	2.6	1966	6	US-10-480-330-8	Sequence 8, Appli	1092	67.5	2.6	3482	7	US-11-087-099-2068	Sequence 2068, Ap
1020	68	2.6	1966	6	US-10-480-330-10	Sequence 10, Appl	1093	67	2.6	182	6	US-10-793-626-826	Sequence 826, App
1021	68	2.6	1966	6	US-10-480-330-12	Sequence 12, Appl	1094	67	2.6	200	7	US-11-179-977-18	Sequence 18, Appl
1022	68	2.6	1966	6	US-10-480-330-14	Sequence 14, Appl	1095	67	2.6	267	6	US-10-995-561-543	Sequence 543, App
1023	68	2.6	1966	6	US-10-480-330-16	Sequence 16, Appl	1096	67	2.6	269	7	US-11-194-246-328	Sequence 328, App
1024	68	2.6	1966	6	US-10-480-330-18	Sequence 18, Appl	1097	67	2.6	287	7	US-11-055-822-102	Sequence 102, App
1025	68	2.6	1966	6	US-10-480-330-20	Sequence 20, Appl	1098	67	2.6	287	7	US-11-055-822-104	Sequence 104, App
1026	68	2.6	1966	6	US-10-480-330-22	Sequence 22, Appl	1099	67	2.6	292	7	US-11-072-512-2862	Sequence 2862, Ap
1027	68	2.6	1966	6	US-10-480-330-24	Sequence 24, Appl	1100	67	2.6	303	7	US-11-052-554A-321	Sequence 321, App
1028	68	2.6	1966	6	US-10-480-330-26	Sequence 26, Appl	1101	67	2.6	325	6	US-10-467-657-14	Sequence 14, Appl
1029	68	2.6	2376	7	US-11-096-568A-27513	Sequence 27513, A	1102	67	2.6	325	6	US-10-467-657-5568	Sequence 5568, Ap
1030	68	2.6	2518	7	US-11-096-568A-27512	Sequence 27512, A	1103	67	2.6	325	7	US-11-087-099-6128	Sequence 6128, Ap
1031	68	2.6	2535	7	US-11-096-568A-27511	Sequence 27511, A	1104	67	2.6	336	6	US-10-821-234-1183	Sequence 1183, Ap
1032	68	2.6	2804	7	US-11-120-925-3	Sequence 3, Appli	1105	67	2.6	343	7	US-11-096-568A-32625	Sequence 32625, A
1033	68	2.6	3063	7	US-11-186-284-26	Sequence 26, Appl	1106	67	2.6	348	7	US-11-096-568A-21734	Sequence 21734, A
1034	68	2.6	3375	7	US-11-044-111-23	Sequence 23, Appl	1107	67	2.6	363	7	US-11-096-568A-21733	Sequence 21733, A
1035	68	2.6	3377	7	US-11-124-367A-271	Sequence 271, App	1108	67	2.6	374	6	US-10-954-468-40	Sequence 40, Appl
1036	67.5	2.6	178	7	US-11-087-099-5781	Sequence 5781, Ap	1109	67	2.6	374	7	US-11-207-626A-21	Sequence 21, Appl
1037	67.5	2.6	307	7	US-11-098-686-11008	Sequence 11008, A	1110	67	2.6	375	6	US-10-793-626-2918	Sequence 2918, Ap
1038	67.5	2.6	333	7	US-11-087-099-7269	Sequence 7269, Ap	1111	67	2.6	379	7	US-11-087-099-9199	Sequence 9199, Ap
1039	67.5	2.6	344	7	US-11-087-099-7157	Sequence 7157, Ap	1112	67	2.6	382	7	US-11-000-463-447	Sequence 447, App
1040	67.5	2.6	345	7	US-11-096-568A-31638	Sequence 31638, A	1113	67	2.6	388	7	US-11-096-568A-1290	Sequence 1290, Ap
1041	67.5	2.6	355	7	US-11-055-822-162	Sequence 162, App	1114	67	2.6	395	6	US-10-467-657-4484	Sequence 4484, Ap
1042	67.5	2.6	363	7	US-11-087-099-10909	Sequence 10909, A	1115	67	2.6	403	7	US-11-087-099-1810	Sequence 1810, Ap
1043	67.5	2.6	364	7	US-11-087-099-8033	Sequence 8033, Ap	1116	67	2.6	409	7	US-11-087-099-9287	Sequence 9287, Ap
1044	67.5	2.6	364	7	US-11-087-099-9418	Sequence 9418, Ap	1117	67	2.6	409	7	US-11-096-568A-21732	Sequence 21732, A
1045	67.5	2.6	365	7	US-11-087-099-9123	Sequence 9123, Ap	1118	67	2.6	415	7	US-11-087-099-11717	Sequence 11717, A
1046	67.5	2.6	375	7	US-11-087-099-7542	Sequence 7542, Ap	1119	67	2.6	422	7	US-11-024-959-460	Sequence 460, App
1047	67.5	2.6	391	7	US-11-129-143-75	Sequence 75, Appl	1120	67	2.6	422	7	US-11-024-959-497	Sequence 497, App
1048	67.5	2.6	407	7	US-11-087-099-6205	Sequence 6205, Ap	1121	67	2.6	425	6	US-10-793-626-110	Sequence 110, App
1049	67.5	2.6	423	7	US-11-055-822-258	Sequence 258, App	1122	67	2.6	425	7	US-11-096-568A-32624	Sequence 32624, A
1050	67.5	2.6	424	7	US-11-137-850-8	Sequence 8, Appli	1123	67	2.6	433	7	US-11-096-568A-22505	Sequence 22505, A
1051	67.5	2.6	430	6	US-10-525-710-8	Sequence 72, Appl	1124	67	2.6	435	7	US-11-096-568A-32623	Sequence 32623, A
1052	67.5	2.6	432	6	US-10-878-556A-72	Sequence 72, Appl	1125	67	2.6	445	7	US-11-096-568A-22504	Sequence 22504, A
1053	67.5	2.6	445	7	US-11-087-099-6520	Sequence 6520, Ap	1126	67	2.6	447	7	US-11-024-959-286	Sequence 286, App
1054	67.5	2.6	458	7	US-11-183-914-11	Sequence 11, Appl	1127	67	2.6	451	6	US-10-467-657-366	Sequence 366, App
1055	67.5	2.6	466	7	US-11-096-568A-7942	Sequence 7942, Ap	1128	67	2.6	459	6	US-10-793-626-2462	Sequence 2462, Ap
1056	67.5	2.6	472	7	US-11-096-568A-7941	Sequence 7941, Ap	1129	67	2.6	463	6	US-10-954-468-38	Sequence 38, Appl
1057	67.5	2.6	476	7	US-11-139-499-4	Sequence 4, Appli	1130	67	2.6	467	7	US-11-087-099-11202	Sequence 11202, A



1131	67	2.6	469	7	US-11-096-568A-8031	Sequence 8031, Ap	1205	66.5	2.5	6	US-10-793-626-2840	Sequence 2840, Ap
1132	67	2.6	471	7	US-11-087-099-9189	Sequence 9189, Ap	1206	66.5	2.5	6	US-10-973-115B-106	Sequence 106, Ap
1133	67	2.6	473	7	US-11-087-099-7361	Sequence 7361, Ap	1207	66.5	2.5	7	US-11-087-099-2531	Sequence 2531, Ap
1134	67	2.6	483	7	US-11-024-959-504	Sequence 504, App	1208	66.5	2.5	7	US-11-096-568A-21695	Sequence 21695, A
1135	67	2.6	486	7	US-11-077-619-112	Sequence 112, App	1209	66.5	2.5	7	US-11-069-642-24	Sequence 24, Appl
1136	67	2.6	486	7	US-11-096-568A-8030	Sequence 8030, Ap	1210	66.5	2.5	7	US-11-087-099-6102	Sequence 6102, Ap
1137	67	2.6	491	7	US-11-096-568A-8029	Sequence 8029, Ap	1211	66.5	2.5	7	US-11-219-282-13	Sequence 13, Appl
1138	67	2.6	493	7	US-11-087-099-9453	Sequence 9453, Ap	1212	66.5	2.5	7	US-11-096-568A-21694	Sequence 21694, A
1139	67	2.6	509	7	US-11-146-428-77	Sequence 77, Appl	1213	66.5	2.5	402	US-10-793-626-2282	Sequence 2282, Ap
1140	67	2.6	525	7	US-11-096-568A-12828	Sequence 12828, A	1214	66.5	2.5	6	US-10-858-730-30	Sequence 30, Appl
1141	67	2.6	537	7	US-11-201-916-23	Sequence 10170, A	1215	66.5	2.5	412	US-11-098-686-10404	Sequence 10404, A
1143	67	2.6	541	7	US-11-201-916-17	Sequence 17, Appl	1216	66.5	2.5	416	US-10-821-234-1375	Sequence 1375, Ap
1144	67	2.6	542	7	US-11-087-099-6916	Sequence 6916, Ap	1217	66.5	2.5	421	US-11-082-389-70	Sequence 70, Appl
1145	67	2.6	558	7	US-11-072-512-3535	Sequence 6916, Ap	1218	66.5	2.5	423	US-11-087-099-9700	Sequence 9700, Ap
1146	67	2.6	582	7	US-11-096-568A-32505	Sequence 3535, Ap	1219	66.5	2.5	6	US-10-467-657-4926	Sequence 4926, Ap
1147	67	2.6	582	7	US-10-793-626-482	Sequence 32505, A	1220	66.5	2.5	434	US-10-793-626-1456	Sequence 1456, Ap
1148	67	2.6	620	7	US-11-087-099-9200	Sequence 482, App	1221	66.5	2.5	434	US-11-096-568A-10413	Sequence 10413, A
1149	67	2.6	628	7	US-11-074-176-244	Sequence 9200, Ap	1222	66.5	2.5	456	US-10-931-626-8	Sequence 8, Appli
1150	67	2.6	632	7	US-11-213-326-4	Sequence 244, App	1223	66.5	2.5	466	US-10-931-626-6	Sequence 6, Appli
1151	67	2.6	646	7	US-11-213-326-6	Sequence 4, Appli	1224	66.5	2.5	473	US-10-931-626-4	Sequence 4, Appli
1152	67	2.6	686	7	US-11-213-326-2	Sequence 2, Appli	1225	66.5	2.5	475	US-11-096-568A-10412	Sequence 10412, A
1153	67	2.6	752	6	US-10-793-626-1036	Sequence 1036, Ap	1226	66.5	2.5	502	US-10-934-944-154	Sequence 154, App
1154	67	2.6	764	7	US-11-087-099-828	Sequence 828, App	1227	66.5	2.5	502	US-11-116-881A-163	Sequence 163, App
1155	67	2.6	777	7	US-11-043-693-3	Sequence 3, Appli	1228	66.5	2.5	7	US-11-135-667-34	Sequence 34, Appl
1156	67	2.6	788	7	US-11-200-296B-4	Sequence 41, Appl	1229	66.5	2.5	7	US-11-072-512-3594	Sequence 3594, Ap
1157	67	2.6	804	7	US-11-070-080-18	Sequence 18, Appl	1230	66.5	2.5	7	US-11-096-568A-29179	Sequence 29179, A
1158	67	2.6	810	6	US-10-954-468-37	Sequence 37, Appl	1231	66.5	2.5	6	US-10-793-626-506	Sequence 506, App
1159	67	2.6	814	6	US-10-501-035-330	Sequence 330, App	1232	66.5	2.5	529	US-11-205-109-11	Sequence 11, Appl
1160	67	2.6	863	6	US-10-793-626-2010	Sequence 2010, Ap	1233	66.5	2.5	533	US-11-087-099-12358	Sequence 12358, A
1161	67	2.6	868	7	US-11-098-686-10347	Sequence 10347, A	1234	66.5	2.5	7	US-11-096-568A-18832	Sequence 18832, A
1162	67	2.6	878	6	US-10-954-468-41	Sequence 41, Appl	1235	66.5	2.5	7	US-11-152-697-3	Sequence 3, Appli
1163	67	2.6	932	7	US-11-188-743-17	Sequence 17, Appl	1236	66.5	2.5	6	US-10-793-626-1486	Sequence 1486, Ap
1164	67	2.6	932	7	US-11-188-743-18	Sequence 18, Appl	1237	66.5	2.5	557	US-11-096-568A-1828	Sequence 1828, Ap
1165	67	2.6	932	7	US-11-183-294-18	Sequence 18, Appl	1238	66.5	2.5	6	US-10-467-657-4258	Sequence 4258, Ap
1166	67	2.6	933	7	US-11-087-099-2153	Sequence 2153, Ap	1239	66.5	2.5	7	US-11-096-568A-18831	Sequence 18831, A
1167	67	2.6	937	7	US-11-017-550-66	Sequence 66, Appl	1240	66.5	2.5	7	US-11-029-465-12	Sequence 12, Appl
1168	67	2.6	984	7	US-11-113-424-60	Sequence 60, Appl	1241	66.5	2.5	6	US-10-507-928-10	Sequence 10, Appl
1169	67	2.6	985	6	US-10-954-468-39	Sequence 39, Appl	1242	66.5	2.5	7	US-11-029-465-10	Sequence 12, Appl
1170	67	2.6	1021	6	US-10-453-372-1076	Sequence 1076, Ap	1243	66.5	2.5	6	US-10-821-234-1601	Sequence 10, Appl
1171	67	2.6	1025	6	US-10-453-372-1070	Sequence 1070, Ap	1244	66.5	2.5	7	US-10-966-483-31	Sequence 31, Appl
1172	67	2.6	1076	7	US-11-098-686-11184	Sequence 1070, Ap	1245	66.5	2.5	6	US-11-021-441-15	Sequence 15, Appl
1173	67	2.6	1076	7	US-11-098-686-11338	Sequence 11184, A	1246	66.5	2.5	7	US-11-096-568A-1827	Sequence 16, Appl
1174	67	2.6	1122	7	US-11-087-099-12448	Sequence 11338, A	1247	66.5	2.5	7	US-10-714-995-16	Sequence 1827, Ap
1175	67	2.6	1298	7	US-11-076-427A-12	Sequence 12448, A	1248	66.5	2.5	6	US-11-096-568A-1826	Sequence 1826, Ap
1176	67	2.6	1298	7	US-11-075-047A-6	Sequence 12, Appl	1249	66.5	2.5	7	US-11-096-568A-29430	Sequence 29430, A
1177	67	2.6	1338	6	US-10-821-234-1622	Sequence 6, Appli	1250	66.5	2.5	7	US-11-096-568A-29173	Sequence 29173, A
1178	67	2.6	1338	7	US-11-109-156-23	Sequence 1622, Ap	1251	66.5	2.5	7	US-11-096-568A-342	Sequence 342, App
1179	67	2.6	1338	7	US-11-075-047A-2	Sequence 23, Appl	1252	66.5	2.5	651	US-11-194-246-342	Sequence 32797, A
1180	67	2.6	1363	7	US-11-043-693-32	Sequence 2, Appli	1253	66.5	2.5	7	US-11-096-568A-32797	Sequence 32797, A
1181	67	2.6	1363	7	US-11-076-427A-10	Sequence 32, Appl	1254	66.5	2.5	667	US-11-096-568A-32796	Sequence 32796, A
1182	67	2.6	1363	7	US-11-075-047A-121	Sequence 10, Appl	1255	66.5	2.5	671	US-11-096-568A-32795	Sequence 32795, A
1183	67	2.6	1394	7	US-11-115-639-53	Sequence 121, App	1256	66.5	2.5	678	US-11-096-568A-29172	Sequence 29172, A
1184	67	2.6	1508	7	US-11-043-889-47	Sequence 53, Appl	1257	66.5	2.5	687	US-11-096-568A-6967	Sequence 6967, Ap
1185	67	2.6	1575	6	US-10-501-035-228	Sequence 47, Appl	1258	66.5	2.5	694	US-11-096-568A-29429	Sequence 29429, A
1186	67	2.6	1614	6	US-10-821-234-903	Sequence 228, App	1259	66.5	2.5	706	US-11-098-686-10524	Sequence 10524, A
1187	67	2.6	1905	6	US-10-877-346-44	Sequence 903, App	1260	66.5	2.5	7	US-11-096-568A-6966	Sequence 6966, Ap
1188	67	2.6	2348	6	US-10-450-224A-2	Sequence 44, Appl	1261	66.5	2.5	709	US-11-096-568A-29889	Sequence 29889, A
1189	67	2.6	4544	6	US-10-501-035-214	Sequence 2, Appli	1262	66.5	2.5	718	US-11-111-664-4	Sequence 4, Appli
1190	67	2.6	4544	7	US-11-076-427A-32	Sequence 214, App	1263	66.5	2.5	719	US-11-096-568A-29171	Sequence 29171, A
1191	67	2.6	4868	7	US-11-044-111-24	Sequence 32, Appl	1264	66.5	2.5	722	US-11-096-568A-31896	Sequence 31896, A
1192	66.5	2.5	178	7	US-11-096-568A-18545	Sequence 24, Appl	1265	66.5	2.5	736	US-11-098-686-11251	Sequence 11251, A
1193	66.5	2.5	220	7	US-11-082-389-72	Sequence 18545, A	1266	66.5	2.5	749	US-11-111-664-3	Sequence 3, Appli
1194	66.5	2.5	256	6	US-10-485-517-378	Sequence 72, Appl	1267	66.5	2.5	7	US-11-111-664-2	Sequence 2, Appli
1195	66.5	2.5	286	7	US-11-096-568A-30703	Sequence 378, App	1268	66.5	2.5	760	US-11-096-568A-31895	Sequence 31895, A
1196	66.5	2.5	302	7	US-11-096-568A-15531	Sequence 30703, A	1269	66.5	2.5	764	US-11-087-099-11066	Sequence 11066, A
1197	66.5	2.5	310	7	US-11-087-099-2844	Sequence 2844, Ap	1270	66.5	2.5	7	US-11-087-099-2704	Sequence 2704, Ap
1198	66.5	2.5	322	7	US-11-156-084-318	Sequence 15531, A	1271	66.5	2.5	766	US-11-072-512-2545	Sequence 2545, Ap
1199	66.5	2.5	326	6	US-10-526-284-1	Sequence 318, App	1272	66.5	2.5	781	US-11-072-512-2937	Sequence 2937, Ap
1200	66.5	2.5	327	7	US-11-096-568A-30702	Sequence 1, Appli	1273	66.5	2.5	788	US-11-200-296B-2	Sequence 2, Appli
1201	66.5	2.5	334	7	US-11-087-099-1591	Sequence 30702, A	1274	66.5	2.5	803	US-11-098-686-10842	Sequence 10842, A
1202	66.5	2.5	347	7	US-11-087-099-3849	Sequence 1591, Ap	1275	66.5	2.5	7	US-11-096-568A-30647	Sequence 30647, A
1203	66.5	2.5	359	6	US-10-931-626-2	Sequence 3849, Ap	1276	66.5	2.5	809	US-10-523-503-66	Sequence 66, Appl
						Sequence 2, Appli	1277	66.5	2.5	7	US-11-096-568A-31894	Sequence 31894, A



1278	66.5	2.5	822	7	US-11-200-296B-67	Sequence 67, Appl	1352	66	2.5	594	6	US-10-467-657-3952	Sequence 3952, Ap
1279	66.5	2.5	824	7	US-11-096-568A-26858	Sequence 26858, A	1353	66	2.5	617	6	US-10-995-561-890	Sequence 890, App
1280	66.5	2.5	832	7	US-11-096-568A-30646	Sequence 30646, A	1354	66	2.5	619	6	US-10-763-712A-35	Sequence 35, Appl
1281	66.5	2.5	852	6	US-10-645-441-15	Sequence 15, Appl	1355	66	2.5	629	7	US-11-072-512-2289	Sequence 2289, Ap
1282	66.5	2.5	852	6	US-10-725-475-7	Sequence 7, Appl	1356	66	2.5	661	6	US-10-467-657-1266	Sequence 1266, Ap
1283	66.5	2.5	852	7	US-11-050-804-6	Sequence 6, Appl	1357	66	2.5	676	7	US-11-098-686-10486	Sequence 10486, A
1284	66.5	2.5	861	7	US-11-087-099-635	Sequence 635, App	1358	66	2.5	682	6	US-10-956-026-14	Sequence 14, Appl
1285	66.5	2.5	883	7	US-11-096-568A-30645	Sequence 30645, A	1359	66	2.5	683	7	US-11-087-099-7461	Sequence 7461, Ap
1286	66.5	2.5	908	7	US-11-077-619-90	Sequence 90, Appl	1360	66	2.5	724	6	US-10-793-626-3082	Sequence 3082, Ap
1287	66.5	2.5	912	7	US-11-042-988-12	Sequence 12, Appl	1361	66	2.5	748	7	US-11-087-099-12342	Sequence 12342, A
1288	66.5	2.5	932	7	US-11-071-581-1	Sequence 1, Appl	1362	66	2.5	756	6	US-10-956-026-13	Sequence 13, Appl
1289	66.5	2.5	966	7	US-11-096-568A-30523	Sequence 30523, A	1363	66	2.5	761	7	US-11-087-099-8791	Sequence 8791, Ap
1290	66.5	2.5	976	7	US-11-096-568A-30522	Sequence 30522, A	1364	66	2.5	772	7	US-11-147-238-2	Sequence 2, Appl
1291	66.5	2.5	978	7	US-11-096-568A-30521	Sequence 30521, A	1365	66	2.5	772	7	US-11-147-238-5	Sequence 5, Appl
1292	66.5	2.5	1005	7	US-11-113-424-63	Sequence 63, Appl	1366	66	2.5	776	7	US-11-033-039-637	Sequence 637, App
1293	66.5	2.5	1073	7	US-11-096-568A-31289	Sequence 31289, A	1367	66	2.5	778	7	US-11-087-099-7615	Sequence 7615, Ap
1294	66.5	2.5	1122	7	US-11-096-568A-31288	Sequence 31288, A	1368	66	2.5	780	6	US-10-878-556A-197	Sequence 197, App
1295	66.5	2.5	1206	7	US-11-096-568A-31287	Sequence 31287, A	1369	66	2.5	798	7	US-11-031-206-192	Sequence 192, App
1296	66.5	2.5	1871	6	US-10-877-346-42	Sequence 42, Appl	1370	66	2.5	821	7	US-11-087-099-821	Sequence 821, App
1297	66.5	2.5	2244	7	US-11-131-263-9	Sequence 9, Appl	1371	66	2.5	847	7	US-11-087-099-970	Sequence 970, App
1298	66.5	2.5	2244	7	US-11-131-263-18	Sequence 18, Appl	1372	66	2.5	862	7	US-11-077-550-171	Sequence 171, App
1299	66.5	2.5	2244	7	US-11-131-263-30	Sequence 30, Appl	1373	66	2.5	862	7	US-11-077-550-173	Sequence 173, App
1300	66.5	2.5	5406	6	US-10-995-561-774	Sequence 774, App	1374	66	2.5	862	7	US-11-054-281-109	Sequence 109, App
1301	66.5	2.5	7968	7	US-11-143-980-49	Sequence 49, Appl	1375	66	2.5	919	6	US-10-858-730-206	Sequence 206, App
1302	66	2.5	246	7	US-11-096-568A-20793	Sequence 20793, A	1376	66	2.5	937	7	US-11-098-686-11296	Sequence 11296, A
1303	66	2.5	251	6	US-10-485-517-167	Sequence 167, App	1377	66	2.5	967	7	US-11-202-268-6	Sequence 6, Appl
1304	66	2.5	271	7	US-11-096-568A-8711	Sequence 8711, Ap	1378	66	2.5	1011	7	US-11-202-268-2	Sequence 2, Appl
1305	66	2.5	274	7	US-11-216-267-28	Sequence 28, Appl	1379	66	2.5	1035	7	US-11-087-099-5013	Sequence 5013, Ap
1306	66	2.5	274	7	US-11-232-382-28	Sequence 28, Appl	1380	66	2.5	1047	7	US-11-072-512-2408	Sequence 2408, Ap
1307	66	2.5	283	7	US-11-096-568A-13650	Sequence 13650, A	1381	66	2.5	1077	7	US-11-054-281-110	Sequence 110, App
1308	66	2.5	299	7	US-11-096-568A-8928	Sequence 8928, Ap	1382	66	2.5	1161	6	US-10-511-538-99	Sequence 99, Appl
1309	66	2.5	300	7	US-11-156-084-344	Sequence 344, App	1383	66	2.5	1170	7	US-11-080-026-2	Sequence 2, Appl
1310	66	2.5	302	6	US-10-793-626-2798	Sequence 2798, Ap	1384	66	2.5	1170	7	US-11-107-028-4	Sequence 4, Appl
1311	66	2.5	323	7	US-11-087-099-3351	Sequence 3351, Ap	1385	66	2.5	1188	7	US-11-115-639-42	Sequence 42, Appl
1312	66	2.5	334	7	US-11-096-568A-20792	Sequence 20792, A	1386	66	2.5	1188	7	US-11-115-639-43	Sequence 43, Appl
1313	66	2.5	337	7	US-11-096-568A-13649	Sequence 13649, A	1387	66	2.5	1208	6	US-10-330-773-810	Sequence 810, App
1314	66	2.5	339	7	US-11-096-568A-30912	Sequence 30912, A	1388	66	2.5	1252	7	US-11-115-639-34	Sequence 34, Appl
1315	66	2.5	342	7	US-11-096-568A-20791	Sequence 20791, A	1389	66	2.5	1252	7	US-11-115-639-35	Sequence 35, Appl
1316	66	2.5	348	7	US-11-096-568A-30911	Sequence 30911, A	1390	66	2.5	1252	7	US-11-115-639-36	Sequence 36, Appl
1317	66	2.5	353	7	US-11-087-099-10560	Sequence 10560, A	1391	66	2.5	1437	7	US-11-074-176-96	Sequence 96, Appl
1318	66	2.5	354	7	US-11-096-568A-11359	Sequence 11359, A	1392	66	2.5	1438	6	US-10-511-559-73	Sequence 73, Appl
1319	66	2.5	357	7	US-11-087-099-8859	Sequence 8859, Ap	1393	66	2.5	1604	7	US-11-037-243-73	Sequence 73, Appl
1320	66	2.5	361	7	US-11-130-206-6	Sequence 6, Appl	1394	66	2.5	2096	6	US-10-995-561-606	Sequence 606, App
1321	66	2.5	362	7	US-11-096-568A-30910	Sequence 30910, A	1395	66	2.5	2351	7	US-11-183-205-30	Sequence 30, Appl
1322	66	2.5	364	7	US-11-087-099-5107	Sequence 5107, Ap	1396	66	2.5	2351	7	US-11-244-087-3	Sequence 3, Appl
1323	66	2.5	364	7	US-11-087-099-10217	Sequence 10217, A	1397	66	2.5	2351	7	US-11-267-631-49	Sequence 49, Appl
1324	66	2.5	365	7	US-11-087-099-1246	Sequence 1246, Ap	1398	66	2.5	2367	7	US-11-051-453-42	Sequence 42, Appl
1325	66	2.5	375	7	US-11-087-099-7345	Sequence 7345, Ap	1399	65.5	2.5	162	7	US-11-096-568A-22723	Sequence 22723, A
1326	66	2.5	375	7	US-11-087-099-11240	Sequence 11240, A	1400	65.5	2.5	170	7	US-11-096-568A-22722	Sequence 22722, A
1327	66	2.5	376	7	US-11-087-099-2815	Sequence 2815, Ap	1401	65.5	2.5	178	7	US-11-096-568A-22721	Sequence 22721, A
1328	66	2.5	384	6	US-10-467-657-508	Sequence 508, App	1402	65.5	2.5	238	7	US-11-096-568A-27112	Sequence 27112, A
1329	66	2.5	410	7	US-11-096-568A-5681	Sequence 5681, Ap	1403	65.5	2.5	242	7	US-11-096-568A-6921	Sequence 6921, Ap
1330	66	2.5	420	7	US-11-098-686-10332	Sequence 10332, A	1404	65.5	2.5	255	7	US-11-087-099-4482	Sequence 4482, Ap
1331	66	2.5	421	6	US-10-858-730-1	Sequence 1, Appl	1405	65.5	2.5	256	7	US-11-096-568A-25307	Sequence 25307, A
1332	66	2.5	431	7	US-11-074-176-132	Sequence 132, App	1406	65.5	2.5	258	7	US-11-054-515-1234	Sequence 1234, Ap
1333	66	2.5	452	7	US-11-087-099-4768	Sequence 4768, Ap	1407	65.5	2.5	270	6	US-10-988-476-2	Sequence 2, Appl
1334	66	2.5	457	7	US-11-208-308-13	Sequence 13, Appl	1408	65.5	2.5	293	7	US-11-170-153-12	Sequence 12, Appl
1335	66	2.5	475	7	US-11-146-428-92	Sequence 92, Appl	1409	65.5	2.5	293	7	US-11-170-166-12	Sequence 12, Appl
1336	66	2.5	480	7	US-11-087-099-9924	Sequence 9924, Ap	1410	65.5	2.5	293	7	US-11-170-351-12	Sequence 12, Appl
1337	66	2.5	482	7	US-11-096-568A-8958	Sequence 8958, Ap	1411	65.5	2.5	296	7	US-11-170-153-10	Sequence 10, Appl
1338	66	2.5	501	6	US-10-467-657-7682	Sequence 7682, Ap	1412	65.5	2.5	296	7	US-11-170-166-10	Sequence 10, Appl
1339	66	2.5	502	7	US-11-096-568A-18101	Sequence 18101, A	1413	65.5	2.5	296	7	US-11-170-351-10	Sequence 10, Appl
1340	66	2.5	503	7	US-11-096-568A-18100	Sequence 18100, A	1414	65.5	2.5	297	7	US-11-096-568A-7083	Sequence 7083, Ap
1342	66	2.5	511	6	US-10-973-115B-122	Sequence 122, App	1415	65.5	2.5	306	6	US-10-995-561-894	Sequence 894, App
1343	66	2.5	524	6	US-10-507-106-4	Sequence 4, Appl	1416	65.5	2.5	310	7	US-11-096-568A-25042	Sequence 25042, A
1344	66	2.5	524	7	US-11-208-308-11	Sequence 11, Appl	1417	65.5	2.5	310	7	US-11-096-568A-27111	Sequence 27111, A
1345	66	2.5	524	7	US-11-208-308-12	Sequence 12, Appl	1418	65.5	2.5	329	7	US-11-096-568A-25249	Sequence 25249, A
1346	66	2.5	540	7	US-11-099-691-2	Sequence 2, Appl	1419	65.5	2.5	329	7	US-11-087-099-9296	Sequence 9296, Ap
1347	66	2.5	541	7	US-11-098-686-11058	Sequence 11058, A	1420	65.5	2.5	332	7	US-11-096-568A-8379	Sequence 8379, Ap
1348	66	2.5	544	7	US-11-096-568A-18099	Sequence 18099, A	1421	65.5	2.5	333	7	US-11-087-099-7274	Sequence 7274, Ap
1349	66	2.5	576	7	US-11-096-568A-8957	Sequence 8957, Ap	1422	65.5	2.5	334	7	US-11-087-099-8695	Sequence 8695, Ap
1350	66	2.5	576	7	US-11-096-568A-8959	Sequence 8959, Ap	1423	65.5	2.5	343	7	US-11-096-568A-7082	Sequence 7082, Ap
1351	66	2.5	583	7	US-11-098-686-11405	Sequence 11405, A	1424	65.5	2.5	348	7	US-11-096-568A-8378	Sequence 8378, Ap

1425	65.5	2.5	349	7	US-11-096-568A-8377	Sequence 8377, Ap
1426	65.5	2.5	356	7	US-11-096-568A-25041	Sequence 25041, A
1427	65.5	2.5	357	7	US-11-087-099-4703	Sequence 4703, Ap
1428	65.5	2.5	360	7	US-11-087-099-10062	Sequence 10062, A
1429	65.5	2.5	361	6	US-10-995-561-612	Sequence 612, App
1430	65.5	2.5	362	6	US-10-467-657-1110	Sequence 1110, Ap
1431	65.5	2.5	362	7	US-11-087-099-8599	Sequence 8599, Ap
1432	65.5	2.5	364	7	US-11-098-686-10327	Sequence 10327, A
1433	65.5	2.5	372	7	US-11-087-099-1983	Sequence 1983, Ap
1434	65.5	2.5	372	7	US-11-087-099-10666	Sequence 10666, A
1435	65.5	2.5	375	7	US-11-051-267-16	Sequence 16, Appl
1436	65.5	2.5	378	7	US-11-087-099-2341	Sequence 2341, Ap
1437	65.5	2.5	379	7	US-11-096-568A-7081	Sequence 7081, Ap
1438	65.5	2.5	383	7	US-11-096-568A-29928	Sequence 29928, A
1439	65.5	2.5	391	7	US-11-096-568A-29927	Sequence 29927, A
1440	65.5	2.5	391	7	US-11-096-568A-29932	Sequence 29932, A
1441	65.5	2.5	402	6	US-10-649-591-18	Sequence 18, Appl
1442	65.5	2.5	417	6	US-10-821-234-1639	Sequence 1639, Ap
1443	65.5	2.5	417	6	US-10-878-556A-52	Sequence 52, Appl
1444	65.5	2.5	419	7	US-11-096-568A-15339	Sequence 15339, A
1445	65.5	2.5	422	6	US-10-485-517-135	Sequence 135, App
1446	65.5	2.5	423	6	US-10-525-710-44	Sequence 44, Appl
1447	65.5	2.5	425	7	US-11-096-568A-25040	Sequence 25040, A
1448	65.5	2.5	425	7	US-11-096-568A-25564	Sequence 25564, A
1449	65.5	2.5	434	7	US-11-096-568A-15338	Sequence 15338, A
1450	65.5	2.5	439	7	US-11-096-568A-29926	Sequence 29926, A
1451	65.5	2.5	439	7	US-11-096-568A-29931	Sequence 29931, A
1452	65.5	2.5	442	7	US-11-087-099-1764	Sequence 1764, Ap
1453	65.5	2.5	480	7	US-11-096-568A-25275	Sequence 25275, A
1454	65.5	2.5	481	7	US-11-031-206-76	Sequence 76, Appl
1455	65.5	2.5	483	7	US-11-096-568A-18833	Sequence 18833, A
1456	65.5	2.5	484	7	US-11-096-568A-25274	Sequence 25274, A
1457	65.5	2.5	500	7	US-11-096-568A-29930	Sequence 29930, A
1458	65.5	2.5	534	7	US-11-057-732-2	Sequence 2, Appl
1459	65.5	2.5	535	7	US-11-096-568A-29234	Sequence 29234, A
1460	65.5	2.5	561	7	US-11-072-512-1990	Sequence 1990, Ap
1462	65.5	2.5	571	6	US-10-973-115B-542	Sequence 542, App
1463	65.5	2.5	576	7	US-11-098-686-10763	Sequence 10763, A
1464	65.5	2.5	590	7	US-11-096-568A-29233	Sequence 29233, A
1465	65.5	2.5	592	7	US-11-096-568A-29232	Sequence 29232, A
1466	65.5	2.5	601	7	US-11-024-959-295	Sequence 295, App
1467	65.5	2.5	602	7	US-11-087-099-11542	Sequence 11542, A
1468	65.5	2.5	603	6	US-10-793-626-1684	Sequence 1684, Ap
1469	65.5	2.5	618	7	US-11-096-568A-29565	Sequence 29565, A
1470	65.5	2.5	619	7	US-11-087-099-381	Sequence 381, App
1471	65.5	2.5	619	7	US-11-096-568A-28116	Sequence 28116, A
1472	65.5	2.5	625	7	US-11-096-568A-27731	Sequence 27731, A
1473	65.5	2.5	625	7	US-11-096-568A-29564	Sequence 29564, A
1474	65.5	2.5	627	7	US-11-130-559-7	Sequence 7, Appl
1475	65.5	2.5	628	6	US-10-793-626-2844	Sequence 2844, Ap
1476	65.5	2.5	633	7	US-11-096-568A-2566	Sequence 2566, Ap
1477	65.5	2.5	675	7	US-11-096-568A-27730	Sequence 27730, A
1478	65.5	2.5	675	7	US-11-096-568A-29563	Sequence 29563, A
1479	65.5	2.5	695	7	US-11-096-568A-27729	Sequence 27729, A
1480	65.5	2.5	718	7	US-11-147-109-6	Sequence 6, Appl
1481	65.5	2.5	729	7	US-11-130-821-4	Sequence 4, Appl
1482	65.5	2.5	734	6	US-10-501-035-347	Sequence 347, App
1483	65.5	2.5	736	6	US-10-330-773-813	Sequence 813, App
1484	65.5	2.5	739	7	US-11-087-099-4827	Sequence 4827, Ap
1485	65.5	2.5	758	7	US-11-087-099-7427	Sequence 7427, Ap
1486	65.5	2.5	765	7	US-11-087-099-905	Sequence 905, App
1487	65.5	2.5	772	6	US-10-858-730-77	Sequence 77, Appl
1488	65.5	2.5	774	7	US-11-096-568A-33913	Sequence 33913, A
1489	65.5	2.5	787	7	US-11-096-568A-33912	Sequence 33912, A
1490	65.5	2.5	794	7	US-11-087-099-9926	Sequence 9926, Ap
1491	65.5	2.5	820	6	US-10-491-468-14	Sequence 14, Appl
1492	65.5	2.5	820	7	US-11-165-819-1	Sequence 1, Appl
1493	65.5	2.5	825	7	US-11-074-176-20	Sequence 20, Appl
1494	65.5	2.5	841	7	US-11-096-568A-33911	Sequence 33911, A
1495	65.5	2.5	852	6	US-10-517-939-120	Sequence 120, App
1496	65.5	2.5	855	6	US-10-714-995-14	Sequence 14, Appl
1497	65.5	2.5	873	7	US-11-057-058-58	Sequence 58, Appl
1498	65.5	2.5	877	7	US-11-098-686-10371	Sequence 10371, A

1499 65.5 2.5 928 6 US-10-841-129-6 Sequence 6, Appli  
1500 65.5 2.5 937 7 US-11-096-568A-29893 Sequence 29893, A

Search completed: March 16, 2006, 17:40:23  
Job time : 35 secs

This Page Blank (uspto)

**THIS PAGE BLANK (uspto)**